

O-4a (Rev. 8-13-79)

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

DATE: December 15, 1981

TO:

b6
b7A
b7C

b7A

Re: JOHN DOE - VICTIM;
INVESTIGATION/SUICIDE

Bullet Lead-3-95-246207

Invoice of Contents

Q1 - Q9

K1

12/14/81

☒ Return to RAC
Room 3174A TL 1535
FBI File # 95-246207
Case # 11103049 S QV VB

☐ Mail Room: 1B327, TL 152
(registered mail)

☐ PSM - Supply Unit, 1B353
(not registered)

RAC
SEVEN

Shipping # #114678141
Shipping Method

12/15/81

RAC: pac* (5)

REPORT
of theFEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

To:

LOCAL & STATE

December 15, 1981

AIRMAIL

FBI FILE NO. 95-246207

LAB. NO. 11103049 S QV VB

YOUR NO. B14066

Re: JOHN DOE - VICTIM;
INVESTIGATION/SUICIDE

Bullet Lead-4-95-246207

Examination requested by: Addressee

Reference: Letter dated October 29, 1981

Examination requested: Firearms - Microscopic Analyses

Specimens:

Q1 Cartridge case removed from K1 revolver

Q2-Q7 Six cartridges removed from K1 revolver

Q8 Bag

Q9 Hair

K1 .32 S&W Long caliber Arminius revolver,
Serial Number [redacted] removed from Q8 bag

Result of examination:

Specimen Q1 is a .32 S&W Long caliber cartridge case of Remington-Peters manufacture which was identified as having been fired in the K1 revolver.

Specimens Q2 through Q7 are .32 S&W Long caliber cartridges of Remington-Peters manufacture.

This examination has been made with the understanding that the evidence is connected with an official investigation of a criminal matter and that the Laboratory report will be used for official purposes only, related to the investigation or a subsequent criminal prosecution. Authorization cannot be granted for the use of the Laboratory report in connection with a civil proceeding.

RAC:pac* (4)

MAIL ROOM ☐b6
b7C

FBI/DOJ

The inside and outside of the Q3 bag were microscopically examined and chemically processed for gunpowder and/or gunshot residues. Scattered gunshot residues were detected on the inside of the Q3 bag. This indicates that the muzzle of a weapon was held within the maximum distance at which such residues would be deposited on the inside of the Q3 bag when fired. This maximum distance was determined to be approximately one foot using the K1 revolver and ammunition like that represented by specimens Q1 through Q7.

The K1 revolver functioned normally when test fired in the Laboratory. The single-action trigger pull was determined to be approximately four and one-half pounds and the double-action trigger pull was determined to be approximately sixteen pounds; these are considered to be normal for a weapon such as the K1 revolver. The K1 revolver was tested in the Laboratory to determine if it could be made to fire without pulling the trigger. When tested in the Laboratory the K1 revolver could be made to fire without pulling the trigger in the following ways:

- 1) by striking the hammer sharply from the rear when the hammer was in the forward position.
- 2) by pulling the hammer to the rear to almost a "full-cock" position and releasing the hammer.

Specimen Q9 consists of brown Caucasian head hairs.

The submitted specimens are being returned to your department under separate cover.

Bullet Lead-5-95-246207

(1)

DEC 10 1981

11103049 QV

Specimen Q1 is a .32 S & W Long caliber cartridge case of Remington-Peters manufacture which was identified as having been fired in the K1 revolver.

Specimens Q2 through Q7 are .32 S & W Long caliber cartridges of Remington-Peters manufacture.

The inside and outside of the Q8 bag were microscopically examined and chemically processed for gunpowder and/or gunshot residues. Scattered gunshot residues were detected on the inside of the Q8 bag. This indicates that the muzzle of a weapon was held within the maximum distance at which such residues would be deposited on the inside of the Q8 bag when fired. This maximum distance was determined to be approximately one foot using the K1 revolver and ammunition like that represented by specimens Q1 through Q7.

The K1 revolver functioned normally when test fired in the laboratory. The single-action trigger pull was determined to be approximately four and one-half pounds and the double-action trigger pull was determined to be approximately

sixteen pounds; these are considered to be normal for a weapon such as the K1 revolver. The K1 revolver was tested in the Laboratory to determine if it could be made to fire without pulling the trigger. When tested on the Laboratory →

see
next
page

b6
b7C

(COPY [] DICTATION)

The submitted specimens are being returned to your department under separate covers.

PAC:

AIR EXPRESS invoices

③

11103049 QV

the K1 revolver could be made to fire without pulling the trigger in the following ways:

- 1) by striking the hammer sharply ^{from the rear} when the hammer was in the forward position.
- 2) by pulling the hammer to the rear to almost a "full-cock" position and ~~then~~ releasing the hammer.

← see page(2)

Bullet Lead-8-95-246207

RECORDED

11/6/81

pac*

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

11/2/81

b6
b7C

Laboratory Work Sheet

b6
b7A
b7C

To:

b7A

Re: JOHN DOE - VICTIM;
INVESTIGATION/SUICIDE

FBI FILE NO.

95-246207 - 2

LAB. NO.

11103049 S QV VB

YOUR NO.

B14066

Examination by:

Examination requested by:

Addressee

Reference:

Letter dated October 29, 1981

Examination requested:

Firearms - Microscopic Analyses

Specimens received:

Specimens:

Q1 Cartridge case removed from K1 revolver

Q2-Q7 Six cartridges removed from K1 revolver

Q8 Bag

Q9 ~~_____~~ Hair

K1 .32 ~~_____~~ 54W Long caliber Arminius revolver,
Serial Number ~~_____~~ removed from Q8 bag

b6
b7A
b7C

Q9 To



11/17/81 ? Q9 Ret'd 12/10/81

b6
b7Cb6
b7C

Bullet Lead-9-95-246207

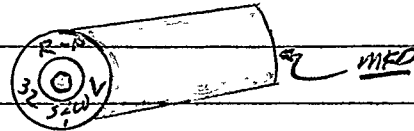
11103049 QV

Q1 CARTRIDGE CASE

MKD(Q1, PC, 1103) IN MOUTH

32 S & W LONG CHAMBER CARTRIDGE CASE OF R-P MFG.,
w/ BRASS CASE & NICKEL PRIMER.

MKS: FPI, BF



Q1 ident KI - FPI
- BFM

P2-Q7 SIX CARTRIDGES

MKD(Q, PC, 1103) ON SIDE

SIX 32 S & W LONG CHAMBER CARTRIDGES OF R-P MFG., w/ BRASS CASE & NICKEL PRIMER.
LOADED w/ LEAD "R-N" BULLETS.

MKS: NO MKS OF VALUE

Bullet Lead-10-95-246207

KI REVOLVER

MKD(KI, PC, 1103) IN trigger guard

32 S & W LONG CHAMBER HERMINUS REVOLVER,

S.N.: [REDACTED] MODEL: HW3

FINISH: BLUE/BLACK

GRIPS: BROWN PLASTIC

BAR LENGTH: 2.7"

CAPAL: 7

WLC:

FUNCTION: NORMAL SA, DA

HAMMER BLOCK WORKING
NORMALLY

→ TRIGGER PULL: SA 4 1/2 DA 16

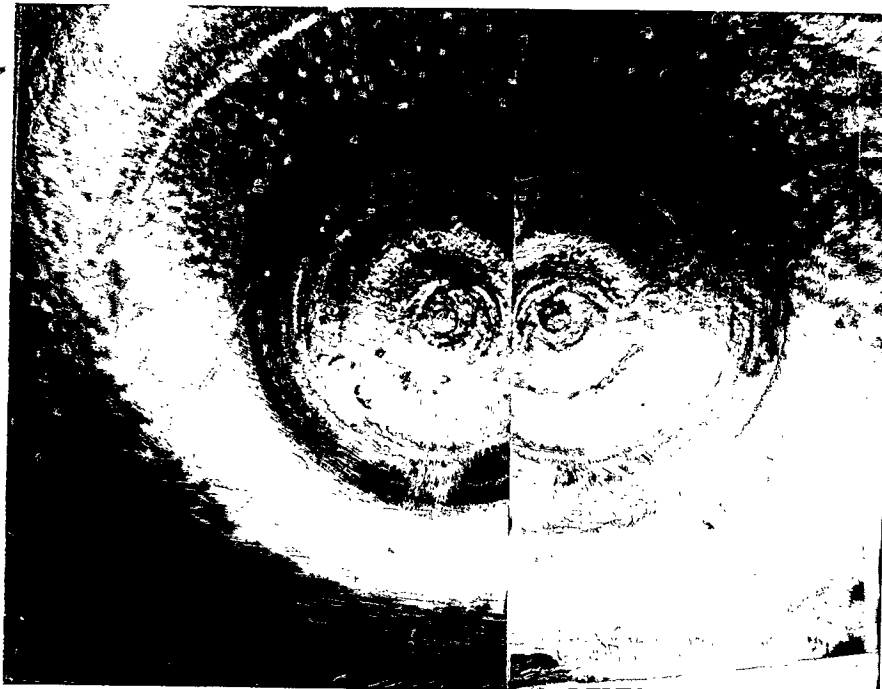
GRCS: 10R

1.02-.025"

G: .07"

NOTE: KI SOAKED IN "OAKITE" WHICH REMOVED RUST FROM bbl, top strap & portion of cylinder. CYLINDER OPENED WITH RAWHIDE Mallet prior to soaking.

Bullet Lead-11-95-246207



11103049 QV

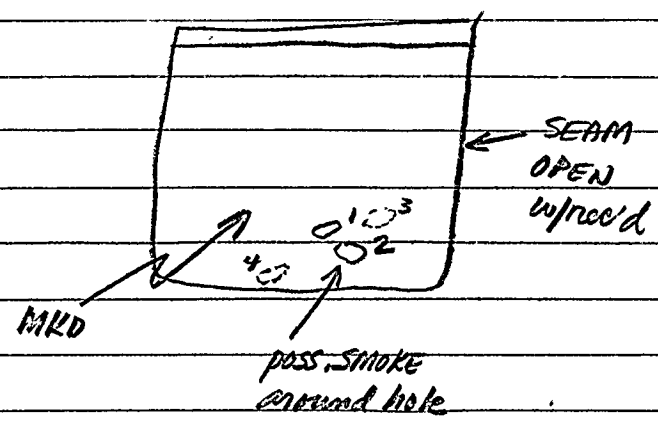
Q1 K1 R 35x

1103049 9V

Q8 BAG
MKD (Q8, PC, 1103) ON SIDE
"RIPPED ZIP-LOCK" BAG.

MICRO: Neg re GPR in bag.

- 1) neg
- 2) poss. smoke
- 3) neg
- 4) neg.



NOTE: 3 & 4 in back of bag as drawn.

numerous other small holes in Q8

Bullet Lead-12-95-246207

CHEM: NARHO

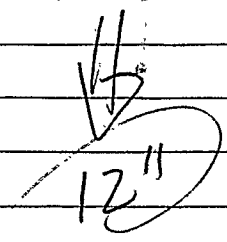
INSIDE: + around holes 1-3 (scattered)
neg hole #4
→ confirmation reaction for smoke around #2

OUTSIDE: + edge of hole #2
neg outside around all other holes

RESULTS indicate weapon fired from inside of Q8 w/in max distance for smoke & NARHO.

GPR test results
K1 & Q1-Q7

Smoke @ < 9"
NO smoke @ 12"



K1 CONT:

When tested in lab K1 C be made to fire p.t.
by:

- 1) striking hammer sharply from rear
when hammer was full forward.
- 2) pulling hammer to rear to almost
full cocked position & releasing it.

NOTE: although hammer block is working normally
it will not prevent discharge in above ways.

Bullet Lead-13-95-246207

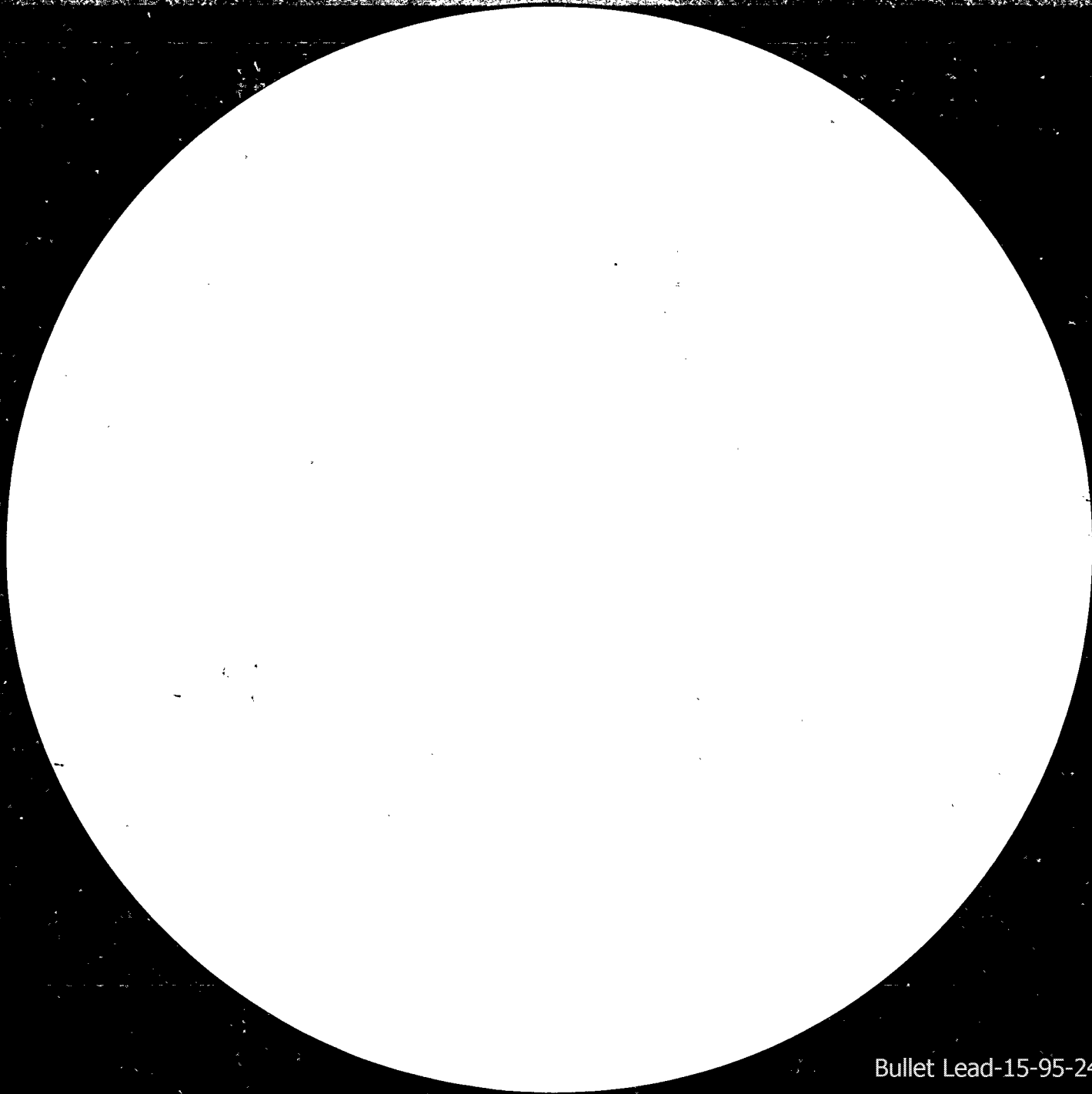
INSIDE
GG RC
1103

2

2

1

Bullet Lead-14-95-246207



Bullet Lead-15-95-246207

RECORDED
11/6/81
pac*

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

11/2/81

Laboratory Work Sheet

b6
b7C

b6
b7A
b7C

To:

b7A

FBI FILE NO.

LAB. NO.

YOUR NO.

Examination by:

Re: JOHN DOE - VICTIM;
INVESTIGATION/SUICIDE

Examination requested by: Addressee

Reference: Letter dated October 29, 1981

Examination requested: Firearms - Microscopic Analyses

Specimens received:

Q9 from [] 11-17-81 b6
R510 12-12-81 b7C

Specimens:

Q1 Cartridge case removed from K1 revolver

Q2-Q7 Six cartridges removed from K1 revolver

Q8 Bag

✓ Q9 ~~Brown~~ Hair

K1 .32 S & W Long caliber Arminius revolver,
Serial Number [] removed from Q8 bag

b6
b7A
b7C

DICTATION:

SPECIMEN Q9 CONSISTS OF BROWN
CAUCASIAN HEAD HAIRS.

2 slides
no pullbacks

Bullet Lead-16-95-246207

Q9 in a sealed plastic bag —
in a manila envelope
ref. samp. mounted

Q9A - OBRN

Bullet Lead-17-95-246207

SMITHSONIAN INSTITUTION
Washington, D.C., U.S.A. 20560

A LETTER HAS, HAS NOT, BEEN WRITTEN

SHIPPING INVOICE

REGISTRAR FILE NO. _____

INSTRUCTIONS TO RECIPIENT:

Loans are made for two months unless stipulated below. When returning material, please mention the Registrar File Number. Types sent on loan must be returned by Registered mail.

INITIATING OFFICE
INVOICE NO. _____DATE February 8, 1988

TO:

The Federal Bureau of Investigation
Washington, D.C.

b6
b7C

LOAN PERIOD _____

INITIATED BY _____

UNIT Department of Anthropology

APPROVED _____

ATTN: _____, Special Agent
FBI Laboratories

b6
b7C(7) Department of Anthropology

THIS MATERIAL IS SENT AS:

- (1) An open long-term exchange
(2) A loan at your request
(3) In exchange
- (6) FBI
(4) A loan for examination at our request
(5) Return of material borrowed
(6) Return of material sent for identification

MATERIAL (As appropriate, state locality, collector, catalog numbers, etc. Total each distribution category)

One box containing human skeletal remains (Forensic Case #80114023, _____)

b7A

Bullet Lead-22-95-246207

88331600 3320 P300000 52200

NO. OF PACKAGES 1 DATE SHIPPED _____SHIPMENT will pick up PAYMENT _____
(Express, parcel post, etc.) (Prepaid, collect, etc.)

SHIPPING NO. _____ SHIPPING CLERK'S INITIALS _____

RECEIVED IN GOOD ORDER

(Name)

(Date)

RETAIN THIS COPY

REPORT
of the

1 -

b6
b7CFEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

February 24, 1988

To:

FBI FILE NO.

95-246207

LAB. NO.

80114023 S VB

YOUR NO.

B14066

Re:

[redacted] - SUSPECT;
JOHN DOE - VICTIM;
HOMICIDE

LOCAL & STATE

Examination requested by:

Addressee

Reference:

Letter dated January 12, 1988

Examination requested:

Miscellaneous

Specimen:

Bullet Lead-23-95-246207

Q10 Skull

Result of examination:

Specimen Q10 was examined by [redacted]
Department of Anthropology, Smithsonian
Institution, Washington, D. C.

The results of [redacted] examination
are enclosed.

b6
b7C

An artist's conceptual drawing of the individual
represented by the Q10 skull was accomplished by [redacted]
with the assistance of an artist of the FBI Laboratory.

The submitted item, along with photographs
of the conceptual drawing, is being returned under
separate cover by registered mail.

MAR 4 1988

Enclosure

This examination has been made with the understanding that the evidence is connected with an official
investigation of a criminal matter and that the Laboratory report will be used for official purposes only, related
to the investigation or a subsequent criminal prosecution. Authorization cannot be granted for the use of the
Laboratory report in connection with a civil proceeding.

PTR:rlc#23 (4)

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3931

MAILED 22

FEB 26 1988 362180597

FBI

189 APR 9 1988

1/14/88

b6
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1/21/88
srg/#1FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

b6
b7A
b7C

To:

b7A

b6
b7A
b7C

Re:

[REDACTED] - SUSPECT;
JOHN DOE - VICTIM;
HOMICIDE

FBI FILE NO. 95-246207-5

LAB. NO. 80114023 S VB

YOUR NO. B14066

Examination by:

Examination requested by:

Addressee

Reference:

Letter dated January 12, 1988

Examination requested:

Miscellaneous

Specimens received:

Specimen:

✓ ¹⁰ Q9 Skullb6
b7CQ10 to SI 1-22-88
given to [REDACTED] pxf
returned 2-12-88 w/died,~~FROM 325 88~~

Bullet Lead-24-95-246207

b7A

b6
b7C

Result of examination:

Specimens *Q10 was*
were examined by [redacted] Department
of Anthropology, Smithsonian Institution, Washington, D.C.

b6
b7C

The results of [redacted] examination are
enclosed.

b6
b7C

An artist's conceptual drawing of the individual
represented by the *Q10* skull was accomplished by [redacted]
with the assistance of an artist of the FBI Laboratory.

~~Specimens~~
~~examined by~~ [redacted] were
~~National Institute of Dental Research, National~~
~~Institutes of Health, Bethesda, Maryland.~~

b6
b7C

~~The results of~~ [redacted] ~~examination are enclosed.~~

b6
b7C

The submitted items, along with photographs of
the conceptual drawing are being returned under separate
cover by registered mail.

Date: Jan 26, 1988

To: The Federal Bureau of Investigation, Washington, D.C.
Attn: [redacted] Special Agent, FBI Laboratories

b6
b7C

From: [redacted] Department of
Anthropology, Smithsonian Institution, Washington, D.C.

b6
b7C

Subject: Forensic Case 80114023, [redacted]

b7A

Material submitted consists of one human cranium, mandible and isolated cranial fragments. All bones are very well preserved with some odor and organic debris present. Numerous open chitinous exoskeletons of fly puparia also are present, especially concentrated within the cranial vault. Several light brown hairs also are present on the cranium, the longest measuring 60 mm in length. Small remnants of dessicated soft tissue remain on the right parietal and facial area.

The cranium is largely intact, with a small circular perforation on the right parietal and a larger broken area on the left parietal-temporal area (see discussion under trauma below). Portions of the left inner orbit also are fragmented and missing. The mandible is intact. All permanent teeth are present, but the four third molars, which had been lost long before death. The teeth show relatively little occlusal wear (attrition), and little to no calculus formation. Restorations are present on the occlusal crown of the maxillary left first molar, the occlusal crown of the mandibular right first molar, and the buccal (outside) crown surface of the mandibular left second molar.

Sex: The appearance of the cranium and mandible, especially the large supraorbital ridges, large mastoid processes and robust occipital strongly suggests male sex.

Age at death: The extent of cranial suture closure and dental attrition suggest an age at death probably between 30 and 35 years of age.

Racial affiliation: The following observations all suggest a Caucasian (White) racial affiliation for this cranium and mandible: narrow nasal aperture, sharp nasal spine, receding malars, slight dental overbite, lack of shovel-shaping in the maxillary incisor teeth, very slight alveolar prognathism, and straight brown hair. Note however, that discriminant function analysis of cranial measurements classified the cranium as intermediate between White and Mongoloid, suggesting that the individual may have mixed racial ancestry.

Time since death: Since associated documents suggest that over six years have elapsed between discovery and this examination, it is difficult to estimate the time interval between death and discovery. The presence of odor and dessicated soft tissue suggest that the interval may have been less than two years and more than one month.

Trauma: Evidence for trauma at or about the time of death

consists of two perforations in the cranium. The first perforation appears to represent the entrance site of a round high-speed projectile. This circular perforation measures 8.6 mm in external surface diameter and is located 9 mm above the squamosal suture and about 34 mm posterior to the coronal suture. A fracture line extends anterior from this perforation, generally following the sphenotemporal suture. This fracture resulted in a partial separation of the squamosal portion of the right temporal. The internal surface of this perforation is considerably larger than its external surface.

The exit site of the projectile is located on the left parietal and consists of a large irregular opening measuring 41mm by 25mm just above the squamosal suture and including a small portion of the superior margin of the left temporal. The borders of this area are very irregular and are associated with considerable bone fragmentation. In addition, a section of bone measuring about 10 by 33 mm is missing from the associated posterior border of the left greater wing of the sphenoid. A fracture line 87 mm long extends from the posterior left squamosal suture to lambda. A second fracture line extends about 43 mm superior and posterior to the large opening on the left parietal. The left greater wing of the sphenoid is slightly separated from the temporal. In addition, the left malar is slightly separated from the left temporal at their common suture on the left zygomatic arch.

All of the trauma observed and noted above could be explained by the impact of a single high speed projectile at or about the time of death.

Identifying Characteristics: Note the dental restorations previously described. The individual also had a slight gap between the mandibular left canine and first premolar. The individual apparently had good dental care and displayed a slight maxillary overbite. A slight bony torus also occurs along the midline of the palate (roof of mouth). The individual had a small but rugged face with prominent nose.

TO: SPECIAL PROJECTS SECTION, LABORATORY DIVISION
ROOM 1B224, JEH BLDG.

Forward Original and Two Copies to Special Projects Section.
Retain One Copy For Your Records.

SPECIAL PROJECTS SECTION WORK ORDER

The services of the Special Projects Section consist of preparing the following:

Artist's Conceptions	Illustrations & Diagrams
Audiovisual Presentations	Maps & Charts
Credentials & Certificates	Special Equipment & Devices
Exhibits & Displays	Trial Charts & Models

NOTE: THESE SERVICES DO NOT INCLUDE CONSTRUCTION, ASSEMBLY, INSTALLATION, MODIFICATION OR MAINTENANCE OF NEW OR EXISTING OFFICE FURNITURE. SUCH REQUESTS SHOULD BE DIRECTED TO PROPERTY PROCUREMENT AND MANAGEMENT SECTION, ADMINISTRATIVE SERVICES DIVISION (ASD). REQUESTS FOR CARPENTRY, ELECTRICAL WORK OR OTHER MAINTENANCE TYPE REQUESTS SHOULD BE DIRECTED TO FACILITIES MANAGEMENT AND SECURITY SECTION, ASD.

Time Stamp

Division 7	Date JAN 20 1988
Section or Unit HEF	Div. or F.O. Cost Center 0732
Section Chief [Redacted]	
Ext. 4416	Room 3268
TL No. 241	

General Description of Work Requested: (Indicate quantity needed of each item. If reference or explanatory data is available please furnish with request. Indicate deadline, if any.)

An artist is needed to assist [Redacted] Anthropologist, Smithsonian Institution to make a conceptual drawing from human skeletal remains.

I-A/C OF SUBJECT

NO COPIES SENT TO [Redacted]

BUFILE # 95-246207 F.O. FILE # LAB 80114032

Purpose and Use: For contributor to use as an aid in identifying the victim.

Detailed information concerning this matter may be obtained directly from:

Working Hours 7-330

Approval By Requesting Office:

Section Chief or Asst. Dir. of Requesting Division Required

Ext. 4918 Room (3931) TL# 241

PORTION OF FORM BELOW DOUBLE LINE FOR SPECIAL PROJECTS USE ONLY

0772 - GDU	0776 - SDU	Employee(s)	Date Assigned
1 (2) 3 4 5 6		[Redacted]	1-29
Instructions and Remarks:			Requisition #
95-246207-			81645
Approved	Date	Completed Date	Bullet Lead-28-95-246207
[Signature]	1/29/88	2-1-88	

Bullet Lead-29-95-246207

95-246207



Bullet Lead-32-95-246207

95-246207
80114023 S VB
Photographs of Q10

207
FILE #...95-246207-5...
CONTENTS: LAB WORK SHEET ITEMS
DO NOT STAMP OR HANDLE AS ENCLOSURE



Violation(s): HOM
Violation date:
Violation location:
Victim:

John Doe -

Lab No: 80114023 S

City:

Form: LT 01-12-88

Bufile No: 95-246207-5
Contributors No: B14066

b7A

Subject:

Remarks:

b6
b7A
b7C

prg
P2

Jan 19 AM

Status 1 Status 2 Status 3 Category: 02
Trial Importance Doc\Sp Complex Volume Await Evid Buded: 02-12-88

Ack Type: 7- 32a Principal Unit: Mku SFO PB UC elb

Examiner(s)	Symbols	Evid./Exams	Date Delv	Date Ret	Dict Date	Partial/Final Date(s)
-------------	---------	-------------	-----------	----------	-----------	-----------------------

	VB	Miss.				

b6
b7C

Q 10 K - Items 1 Evidence ret:

Resub? NO Request? NO Return No:
Call when ready? NO EXT
Latent? YES NO Q tabs? YES NO Print 2 Assignment Card(s)

NO PREVIOUS SUBMISSIONS FOUND

44486

b6
b7C

Note previous 11103049-S QV, VB.
95-246207

Q10 Skull

Bullet Lead-34-95-246207

Parcel Method and No: CT-P430037140
Received In ECC: 01-14-88
01-Boxes

SFO, RM 3266
ECC, RM 3233
WPC, RM 3431

DATE: 2/27/89
b6
TC b7A
b7C
b7A

Re: [redacted] - SUSPECT;
[redacted] VICTIM;
HOMICIDE

4 ~~2~~ #

b6
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b7A

Invoice of Contents

Description of Contents:

Q11

RESUBMITTED items

Q1
Q2-Q7
K1

Bullet
Lead-35-95-246207

FBI File # 95-246207

Case # 81206010 S QV NC VB

Your # [redacted]

☒ Return to [redacted]

Room 387C TL 291

Ext. 4429

☐ Mail Room: 1B327, TL 152

(registered mail)

☒ PSM - Supply Unit, 1B353

(not registered)

Shipping # 3-9

Shipping Method Fx-367378001

Hazardous Materials Only

Weight of Hazardous Materials: 48 Grams Smokeless Powder

Packaged By [redacted]
Signature

Date 3/9/89

58
MAR 20 1989
REC-10123 (5)

2/27/89

MAR 0 9 1989

b6
b7C

O-4a (Rev. 5-31-83)
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C. 20535

DATE:

TO: 2/24/88

Re:

SUSPECT;

JOHN DOE - VICTIM;
HOMICIDE

b6
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b7C

b6
b7A
b7C

b7A

Invoice of Contents

Description of Contents:

Q10

Photographs

FBI File # 95-246207

Case # 80114023 S VB

Your # B14066

☐ Return to

Room 3931 TL 241

Ext. 4918

☐ Mail Room: 1B327, TL 152

(registered mail)

☐ PSM - Supply Unit, 1B353

(not registered)

MAILED 21
MAR 25 1988
FBI

362184595

Shipping #

Shipping Method

Hazardous Materials Only

Weight of Hazardous Materials:

Packaged By Signature

Bullet Lead-36-95-246207

Date

2/24/88

MAR 24 1988

PTF:rlc#23 (4)
42 APR 20 1988

REPORT
of theFEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

1 -

b6
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b7A
b7C

To:

March 1, 1989

b7A

FBI FILE NO.

95-246207

b6
b7A
b7C

Re:

LAB. NO.

81206010 S QV NC VB

YOUR NO.

SUSPECT;
UNKNOWN - VICTIM;
HOMICIDE

Bullet
Lead-39-95-246207

Examination requested by:

Addressee

Reference:

Letter dated December 1, 1988

Examination requested:

Firearms - Metals Analysis - Miscellaneous

Specimens:

Q11 Bullet from victim's skull (Item 1)

RESUBMITTED FROM LABORATORY NUMBER 11103049 S QV VB:

Q1 Cartridge case removed from K1 revolver (Item 3)

Q2-Q7 Six cartridges removed from K1 revolver (Item 3)

K1 .32 S&W Long caliber Arminius revolver,
Serial Number [redacted] (Item 2)

95-246207-7

b6
b7A
b7C

MAR 9 1989

Result of examination:

Reference is made to FBI Laboratory report 11103049 S QV VB dated December 15, 1981, wherein specimens Q1 through Q7 and K1 have been previously described. Reference is also made to FBI Laboratory report 80114023 S VB dated February 24, 1988, wherein specimen Q10 was previously described.

Page 1

(over)

This examination has been made with the understanding that the evidence is connected with an official investigation of a criminal matter and that the Laboratory report will be used for official purposes only, related to the investigation or a subsequent criminal prosecution. Authorization cannot be granted for the use of the Laboratory report in connection with a civil proceeding.

RAC:lot#23 (4)

MAIL ROOM ☐

MAR 17 1989

FBI/DOJ

MAILED 21

MAR 6 1989

FBI

b6
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✓
3787C

FIREARMS:

Specimen Q11 is a .32 caliber lead bullet which has been fired from a barrel rifled with ten grooves, right twist. The number, widths and direction of twist of the rifling impressions in the Q11 bullet are like those produced by the K1 revolver indicating that the Q11 bullet could have been fired from the K1 revolver. The Q11 bullet lacks sufficient individual microscopic marks of value for comparison purposes; therefore, it could not be determined if the Q11 bullet was fired from the K1 revolver to the exclusion of all other similarly rifled .32 caliber firearms.

As noted in the referenced December 15, 1981 report, the Q2 through Q7 cartridges are .32 S&W Long caliber cartridges of Remington manufacture. These cartridges are loaded with round-nosed lead bullets. The bullet was removed from one of these cartridges in the Laboratory, namely specimen Q7. It is noted that the Q11 bullet is similar in all its remaining observable physical characteristics to the bullet portion of the Q7 cartridge.

METALS ANALYSIS:

Specimen Q11 and the bullets from specimens Q2 through Q7 (11103049 S QV VB) were analyzed for their elemental composition by instrumental means.

Close compositional associations were found between specimen Q11 and the bullets of specimens Q2 and Q3. Bullets such as these are typically found within the same box of cartridges. It is pointed out that they can also be found in other boxes of cartridges, but it is most likely that these boxes would be produced by the same manufacturer on or about the same date.

For your information, it is not unusual to have more than one composition of bullets in a single box of ammunition.

MISCELLANEOUS:

The specimen Q10 skull was received in the FBI Laboratory January 14, 1988. A bullet was noted inside the skull. The bullet was removed and retained in the Laboratory while Anthropological examinations were being conducted. The bullet was then replaced inside the skull and returned to the investigating agency on April 20, 1988.

DISPOSITION:

The submitted specimens are being returned to your department under separate cover by air express.

Bullet
Lead-41-95-246207

Reference is made to FBI Laboratory report 11103049 S QV VB dated December 15, 1981, wherein specimens Q1 through Q7 and K1 have been previously described. Reference is ^{also} made to FBI Laboratory report ^{dated February 24, 1988,} 80114023 S VB wherein specimen Q10 was previously described.

81206010 QV

FIREARMS:

Specimen Q11 is a .32 caliber lead bullet which has been fired from a barrel rifled with ten grooves, right twist. The number, width and direction of twist of the rifling impressions in the Q11 bullet are like those produced by the K1 revolver indicating that the Q11 bullet could have been fired from the K1 revolver. The Q11 bullet lacks sufficient individual microscopic marks of value for comparison purposes; therefore, it could not be determined if the Q11 bullet was fired from the K1 revolver to the exclusion of all other similarly rifled .32 caliber firearms.

As noted in the referenced December 15, 1981 report, the Q2 through Q7 cartridges are .32 S & W Long caliber cartridges ^{of Remington manufacture.} These cartridges are loaded with round-nosed lead bullets. The bullet was removed from one of these cartridges in the Laboratory, namely specimen Q7. It is noted that the Q11 bullet is similar in all its remaining observable physical characteristics to the bullet portion of the Q7 cartridge.

Metals Analysis:

(copy  dictation)

b6
b7C

Miscellaneous:

Bullet
Lead-42-95-246207

(copy  dictation)

b6
b7C

Disposition

The submitted specimens are being returned to your department under separate cover by air express.

RECORDED FEDERAL BUREAU OF INVESTIGATION
12/9/88 UNITED STATES DEPARTMENT OF JUSTICE
CO #13

12/6/88

b6
b7C

Laboratory Work Sheet

b6
b7A
b7C

To:

b7A

b6
b7A
b7C

Re:

SUSPECT;
UNKNOWN - VICTIM;
HOMICIDE

FBI FILE NO. 95-246207-7
LAB. NO. 81206010 S ^{QV}~~PH~~ NC VB
YOUR NO.

Examination by:

Examination requested by: Addressee

Reference: Letter dated December 1, 1988

Examination requested: Firearms - Metals Analysis - *Miscellaneous*

Specimens received:

Specimens:

Q11 Bullet ~~removed~~ ^{skull} from victim's (Item 1)
SPECIMENS RESUBMITTED FROM LABORATORY NUMBER 11103049 S QV VB:
Q1 Q12 Cartridge case removed from ~~K~~revolver (Item 3)
Q2-Q7 Q13-Q18 Six cartridges removed from ~~K~~revolver (Item 3)
K1 .32 S&W Long caliber Arminius revolver (Item 2)

b6
b7A
b7C

Serial Number

RET
2/21/89
Q11; Q2-Q7 TO 1/13/89

b6
b7C

Bullet
Lead-43-95-246207

7-1a
2/27/89
RAC: lot #23

b6
b7C

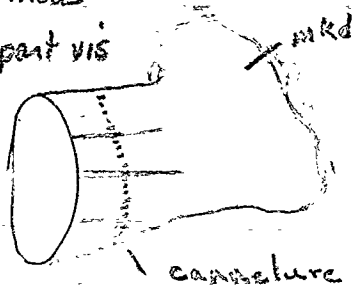
4302

81206010 5TH

Q11 Bullet removed from victim, received inside cardboard cylinder container, inside cardboard box. (Item 1) Marked (Q11 WA 81206010) on nose.

1 LI
26I² VIS/meas

ALL LI/6E part vis



Nose of bullet badly smashed

Wt: 92.6 gr

Dia: .31-.32

Cal: .32 S & W Long caliber

GRCs: 10R 1.025 .035" G. .07

Manuf: Most consistent with Remington-Peters

Base to cannellure: .10"

Mov: Insufficient

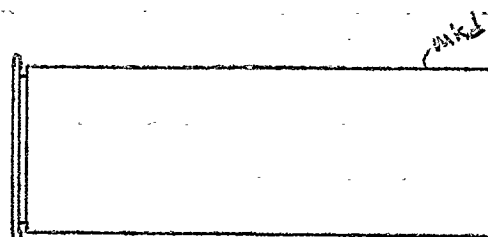
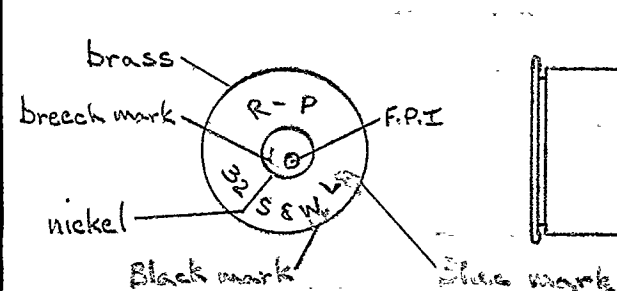
Bullet type: Lead

Saf# 235

Q11 same GRC as K1

Q11 SROPC to bullet portion of Q7 (pulled)

Q1 Cartridge case removed from revolver, received with Q2-Q7, inside plastic zip-lock bag, inside manila envelope, inside cardboard box. (Item 2) Marked (Q1, P, 81206010) on side of case.



Brass case - nickel primer
Manuf: Remington-Peters
Cal: .32 S & W Long

E.F.M. - Extremely limited (circular)

F.P.I. - Good

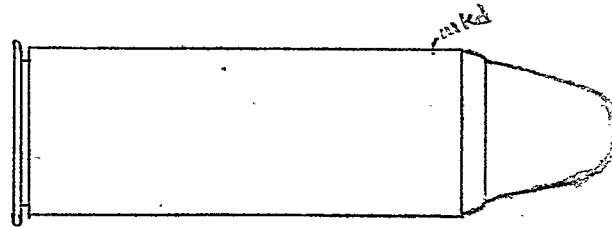
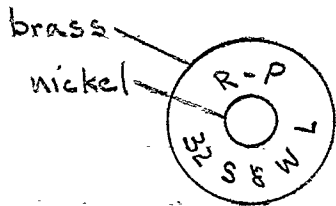
Q1 ident K1 see prev w/s

08026 03984
10259 07153
11325 07426
03481
00255
00254
03677
00251
00236
00235

Bullet
Lead-45-95-246207

81206010 S QV.

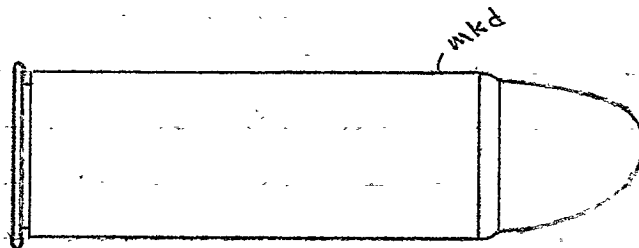
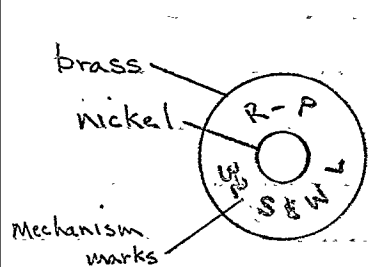
Q2 Cartridge removed from revolver; received inside plastic zip-lock bag with Q3-Q7, inside manila envelope, inside cardboard box. (Item 3) Marked (Q2, R, 81206010) on side of case.



Brass case - nickel primer
Manuf: Remington-Peters
Cal: .32 S&W long
Bullet type: Lead R.N.

M.O.V: None.

Q3 Cartridge removed from revolver, received same as Q2; (Item 3) Marked (Q3, R, 81206010) on side of case.



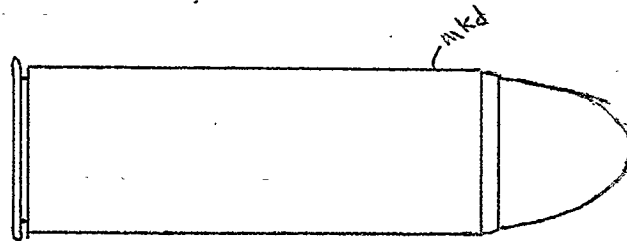
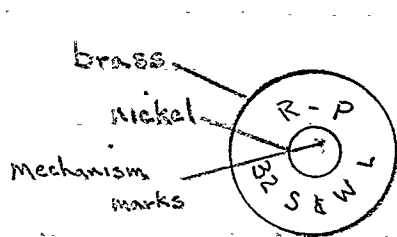
Brass case - nickel primer
Manuf: Remington-Peters
Cal: .32 S&W long
Bullet type: Lead R.N.

M.O.V: None

Bullet Lead-46-95-246207

81206010 S TH

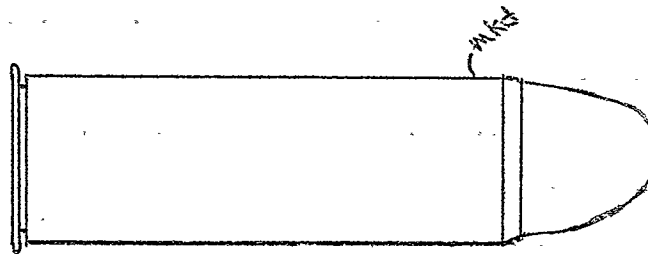
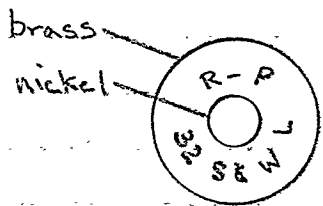
Q4 Cartridge removed from revolver, received same as Q2, (Item 3). Marked (Q4, R, 81206010) on side of case.



Brass case-nickel primer
Manuf: Remington-Peters
Cal: .32 S&W Long
Bullet type: Lead R.N.

M.O.V - None

Q5 Cartridge removed from revolver, received same as Q2, (Item 3). Marked (Q5, R, 81206010) on side of case.



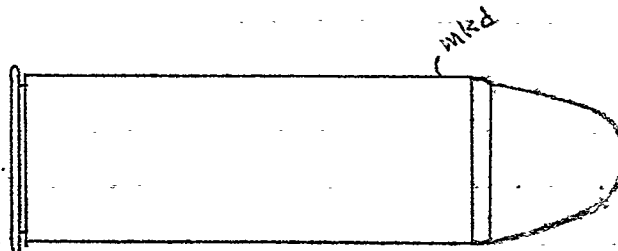
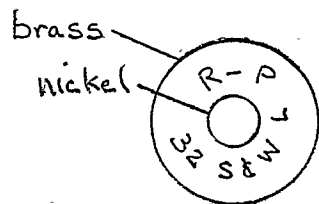
Brass case-nickel primer
Manuf: Remington-Peters
Cal: .32 S&W Long
Bullet type: Lead R.N.

M.O.V - None

Bullet Lead-47-95-246207

81206010 STH

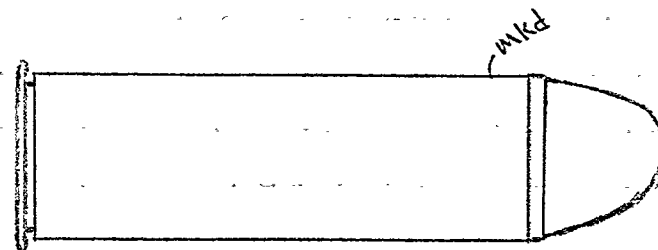
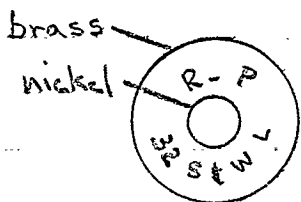
Q6 Cartridge removed from revolver, received same as Q2, (Item 3)
Marked (Q6, R, 81206010) on side of case.



Brass case - nickel primer
Manuf: Remington-Peters
Cal: .32 S&W Long
Bullet type: Lead R.N.

M.O.V - None

Q7: Cartridge removed from revolver, received same as Q2, (Item 3)
Marked (Q7, R, 81206010) on side of case.



Brass case - nickel primer
Manuf: Remington-Peters
Cal: .32 S & W Long
Bullet type: Lead R.N.

M.O.V. - None

Note: Cartridge broken down into components: Bullet wt: 97.9 gr
Flake powder

81206010

b6
b7C



Dictation:

Specimen Q11 and the bullets from specimens Q2 through Q7 (11103049 S QV) were analyzed for their elemental composition by instrumental means.

Close compositional associations were found between specimen Q11 and the bullets of specimens Q2 and Q3. Bullets such as these are typically found within the same box of cartridges. It is pointed out that they can also be found in other boxes of cartridges, but it is most likely that these boxes would be produced by the same manufacturer on or about the same date.

For your information, it is not unusual to have more than one composition of bullets in a single box of ammunition.

b6
b7C



2/17/89

		<u>STATS</u>		
NAA	Other	NC	7	24
ICP		NC	3	12

RA
2-17-89

Bullet Lead-49-95-246207

APR/10/88

81206010 S QV NC VB

b6
b7C



dictation:

The specimen Q10 skull was received in the FBI Laboratory January 14, 1988. A bullet was noted inside ^{THE} skull. The bullet was removed and retained in the Laboratory while Anthropological examinations were being conducted. The bullet was then replaced inside the skull and returned to the investigating agency on April 20, 1988.

Bullet Lead-50-95-246207

RECORDED
12/9/88
co #13

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

12/6/88

Laboratory Work Sheet

b6
b7A
b7C

b6
b7C

To:

b7A

b6
b7A
b7C

Re:

UNKNOWN - VICTIM;
HOMICIDE

SUSPECT;

FBI FILE NO. 95-246207-7
LAB. NO. 81206010 S ^{QV} ~~NC~~ NC
YOUR NO.

Examination by:

Examination requested by: Addressee

Reference: Letter dated December 1, 1988

Examination requested: Firearms - Metals Analysis

Specimens received:

Specimens:

Q11 Bullet removed from victim (Item 1)
SPECIMENS RESUBMITTED FROM LABORATORY NUMBER 11103049 S QV:
Q1 Q12 Cartridge case removed from revolver (Item 3)
Q2-Q7 Q13-Q18 Six cartridges removed from revolver (Item 3)
K1 .32 S&W Long caliber Arminius revolver (Item 2)

Serial Number

b6
b7A
b7C

Bullet Lead-51-95-246207

7-1a
2/27/89
AAC:lot #23

b6
b7C

b6
b7C

firearms evidence

was advised to resubmit all
RAC 11/22/88

b6
b7C

someone who admits to this shooting. A bullet was found inside the skull and needs to be compared with the K1 revolver. Does she need to resub revolver or do you maintain the previously test fired bullet here? Please call her at 808/244-6425

I will be on leave until 11/28

b6
b7C

b6
SERVICE b7C REGULAR

ROUTE TO

NAME [REDACTED] TL 241 / MLB

ROOM
3931

EXT.
4352

SUBJECT
UNSUB

FILE NUMBER
95-246207

SERIAL (S)
SECTION

1

DATE
11/18/88

TIME
1:25P

LATEST SERIALS

SERIAL	DATE	TYPE	STATUS	CATEGORY
5	2/24/88	LETTER	[REDACTED]	b7A
4	1/12/88	SUBJECT LETTER	[REDACTED]	b6 b7A b7C b7A
b7A 3	1/12/88	SUBJECT LETTER	[REDACTED]	b6 b7A b7A b7C
		SUBJECT	[REDACTED]	b6 b7A b7C

TRANSFER FILE - CALL 3421

HANDLE FILE WITH CARE

FACS

FILE AUTOMATED
CONTROL SYSTEM

Bullet Lead-53-95-246207

ROUTING SLIP

8120610

Q10 First used in lab 1-14-88, when being taken
to St. Vincent's hospital. Bullet removed from skull.
Bullet removed & retained in lab. Bullet
replaced in skull and returned to custody
by RM 4-20-88. Bullet was given to
no person named, [redacted] called
11-28-88 & asked if it had placed bullet in skull.

b6
b7C

Bullet Lead-54-95-246207

RECORDED
12/9/88
CO #13

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

12/6/88

b6
b7C

b6
b7A
b7C

To:

[Redacted]

b7A

b6
b7A
b7C

Re:

[Redacted] SUSPECT;
UNKNOWN - VICTIM;
HOMICIDE

FBI FILE NO. 95-246207

LAB. NO. 81206010 S ^{QV} ~~NC~~ NC

YOUR NO.

Examination by:

Q2-Q7, Q11 rec'd. from QV 1/13/89
Q2-Q7, Q11 rec'd. to QV 2/21/89

Examination requested by:

Addressee

Reference:

Letter dated December 1, 1988

Examination requested:

Firearms - Metals Analysis

Specimens received:

Specimens:

✓ Q11 Bullet removed from victim (Item 1)
SPECIMENS RESUBMITTED FROM LABORATORY NUMBER 11103049 S QV:
Q1 Q12 Cartridge case removed from revolver (Item 3)
✓ Q2-Q7 Q13-Q18 Six cartridges removed from revolver (Item 3)
K1 .32 S&W Long caliber Arminius revolver (Item 2)

Serial Number

[Redacted]

b6
b7A
b7C

.32 S&W Long cal. R-P ^{h.n.m.} Cartridges (Q2-Q7) All lead bullet weight = 5.995g.

Bullet Lead-56-95-246207

b6
b7C

SEARCHED
SERIALIZED
INDEXED
FBI/DOJ

4362

RECORDED
12/9/88
CO #13

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

12/6/88

Laboratory Work Sheet

b6
b7A
b7C

b6
b7C

To:

b7A

b6
b7A
b7C

Re:

SUSPECT;
UNKNOWN - VICTIM;
HOMICIDE

FBI FILE NO. 95-246207

LAB. NO. 81206010 S ~~TH~~ NC

YOUR NO.

Examination by:

Examination requested by:

Addressee

Reference:

Letter dated December 1, 1988

Examination requested:

Firearms - Metals Analysis

Specimens received:

Specimens:

Q11 Bullet removed from victim (Item 1)

Q12 Cartridge case removed from revolver (Item 3)

Q13-Q18 Six cartridges removed from revolver (Item 3)

K1 S&W long caliber Arminius revolver (Item 2)

Bullet Lead-57-95-246207

b7A

Results

81206010 5 QV NC

Sample	PPM(Cu)	% (Sb)	PPM(As)	PPM(Ag)	PPM(Bi)
Q11 Victim	104 ± 2	.80 ± 0	33 ± 3	20 ± 0	98 ± 8
Q2 Cartridge	95 ± 4	.77 ± 1	28 ± 2	20 ± 0	98 ± 9
Q3 Cartridge	93 ± 3	.77 ± 1	24 ± 1	20 ± 0	96 ± 0

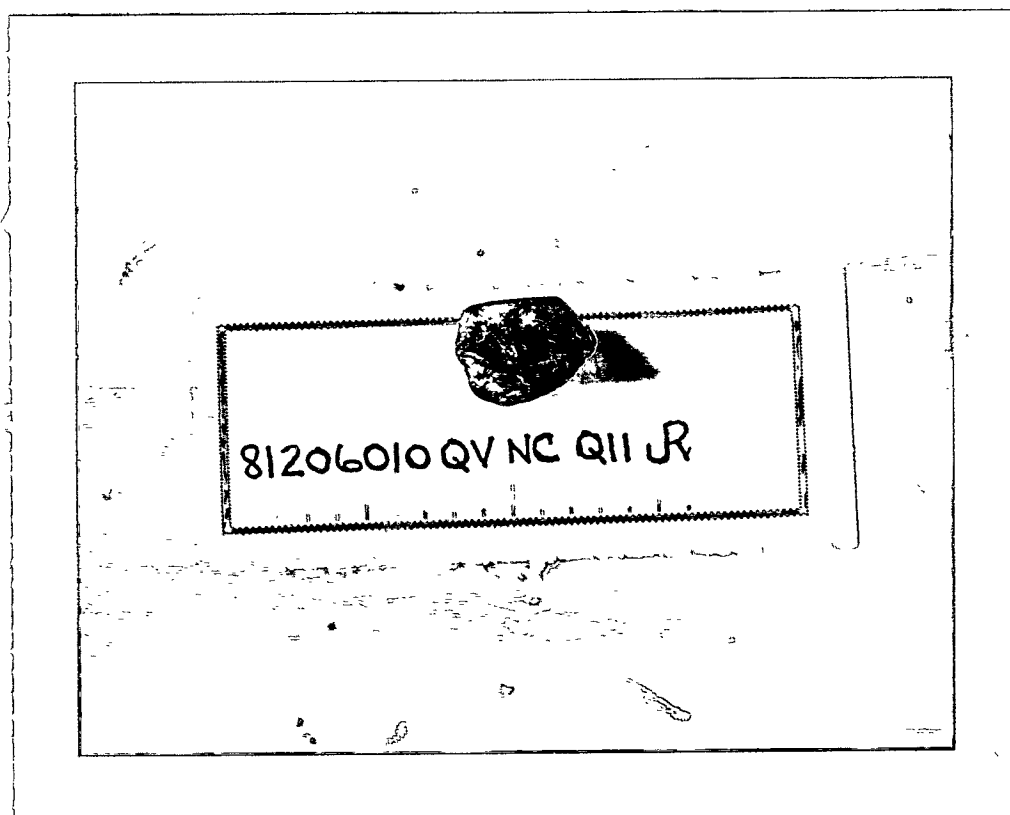
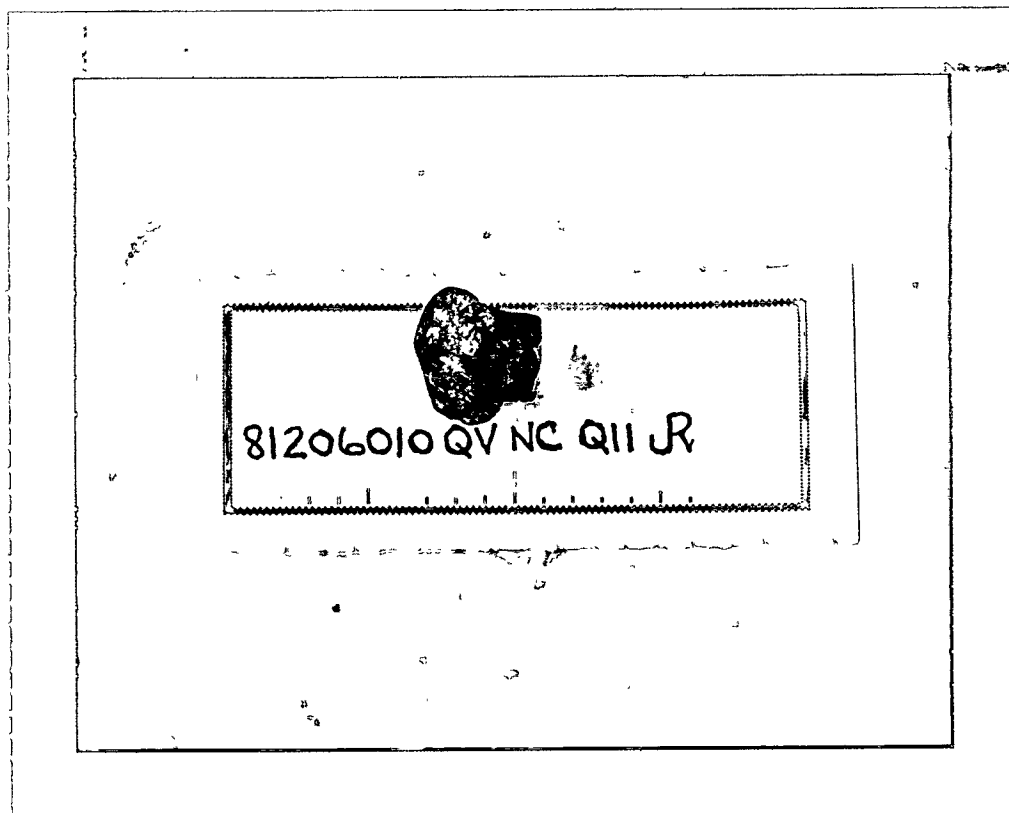
Bullet Lead-59-95-246207

SAMPLE	SAM.WT.	%-COPPER	%-ANTIMONY	%-ARSENIC (559.30)	%-ARSENIC (657.02)
BKG1	12000.0	0.00049	0.01962	0.00018	0.00000
Q11A	15634.0	0.01058	0.79941	0.00293	0.00331
Q11B	14852.0	0.01019	0.80390	0.00346	0.00230
Q11C	14933.0	0.01048	0.80664	0.00345	0.00396
AVE -		0.01042	0.80332	0.00328	0.00319
SD -		0.000203	0.003650	0.000301	0.000835
%RSD -		1.950165	0.454392	9.173174	26.179817
Q2A	12510.0	0.00991	0.77600	0.00259	0.00277
Q2B	11776.0	0.00928	0.76616	0.00304	0.00349
Q2C	11801.0	0.00928	0.77599	0.00268	0.00236
AVE -		0.00949	0.77271	0.00277	0.00287
SD -		0.000364	0.005679	0.000236	0.000571
%RSD -		3.836754	0.734931	8.497594	19.876369
Q3A	12674.0	0.00893	0.77271	0.00230	0.00161
Q3B	13062.0	0.00937	0.76257	0.00244	0.00346
Q3C	12719.0	0.00959	0.76559	0.00247	0.00227
AVE -		0.00930	0.76695	0.00240	0.00245
SD -		0.000334	0.005206	0.000087	0.000936
%RSD -		3.595705	0.678751	3.630477	38.261978
Q4A	13502.0	0.02242	0.73377	0.00500	0.00513
Q4B	14398.0	0.02211	0.73089	0.00460	0.00401
Q4C	13034.0	0.02254	0.72892	0.00512	0.00417
AVE -		0.02236	0.73119	0.00491	0.00444
SD -		0.000222	0.002439	0.000274	0.000609
%RSD -		0.992138	0.333568	5.581376	13.736686
Q5A	13203.0	0.00990	0.67818	0.00094	0.00157
Q5B	13084.0	0.01028	0.67420	0.00097	0.00087
Q5C	11484.0	0.00951	0.67865	0.00107	0.00129
AVE -		0.00990	0.67701	0.00100	0.00124
SD -		0.000383	0.002442	0.000067	0.000353
%RSD -		3.871447	0.360708	6.782592	28.339716
Q6A	13908.0	0.00958	0.68246	0.00105	0.00111
Q6B	13925.0	0.00981	0.68438	0.00164	0.00073
Q6C	14476.0	0.00947	0.66455	0.00096	0.00148
AVE -		0.00962	0.67713	0.00122	0.00111
SD -		0.000175	0.010934	0.000372	0.000376
%RSD -		1.819149	1.614730	30.568071	33.967598

Q7A	16272.0	0.02175	0.72649	0.00478	0.00495
Q7B	16668.0	0.02226	0.72471	0.00464	0.00433
Q7C	15493.0	0.02199	0.72822	0.00516	0.00524
AVE -	0.02200	0.72647	0.00486	0.00484	
SD -	0.000252	0.001756	0.000269	0.000463	
%RSD -	1.144371	0.241675	5.531042	9.569040	
S2416A	12774.0	0.06277	0.77328	0.04960	0.04625
S2416B	12206.0	0.06315	0.76478	0.04938	0.05150
S2416C	11487.0	0.06246	0.77838	0.04888	0.05071
AVE -	0.06279	0.77215	0.04929	0.04949	
SD -	0.000349	0.006871	0.000367	0.002831	
%RSD -	0.555347	0.889797	0.743725	5.721251	
BLANK	12000.0	0.00040	0.00001	0.00003	0.00000
BKG2	12000.0	0.00022	0.00000	0.00000	0.00000

Bullet Lead-61-95-246207

Evidence Photographs for 81206010 QV NC



SAMPLE		%-COPPER	%-ANTIMONY	%-ARSENIC (559.30)	%-ARSENIC (657.02)
BKG1		0.00049	0.01962	0.00018	0.00000
Q11	SD -	0.01042 0.000203	0.80332 0.003650	0.00328 0.000301	0.00319 0.000835
Q2	SD -	0.00949 0.000364	0.77271 0.005679	0.00277 0.000236	0.00287 0.000571
Q3	SD -	0.00930 0.000334	0.76695 0.005206	0.00240 0.000087	0.00245 0.000936
Q4	SD -	0.02236 0.000222	0.73119 0.002439	0.00491 0.000274	0.00444 0.000609
Q5	SD -	0.00990 0.000383	0.67701 0.002442	0.00100 0.000067	0.00124 0.000353
Q6	SD -	0.00962 0.000175	0.67713 0.010934	0.00122 0.000372	0.00111 0.000376
Q7	SD -	0.02200 0.000252	0.72647 0.001756	0.00486 0.000269	0.00484 0.000463
S2416	SD -	0.06279 0.000349	0.77215 0.006871	0.04929 0.000367	0.04949 0.002831
BLANK		0.00040	0.00001	0.00003	0.00000
BKG2		0.00022	0.00000	0.00000	0.00000

Bullet Lead-65-95-246207

SAMPLE INTERCOMPARISON REPORT FOR 206010 NC

SAMPLE	***** %-COPPER *****	**** %-ANTIMONY ****	***** %-ARSENIC *****
Q11	0.01042 +/- 0.00020	0.80332 +/- 0.00365	0.00328 +/- 0.00030
Q2	0.00949 +/- 0.00036	0.77271 +/- 0.00568	0.00277 +/- 0.00024

Bullet Lead-66-95-246207

SAMPLE INTERCOMPARISON REPORT FOR 206010 NC

SAMPLE	***** %-COPPER *****	***** %-ANTIMONY *****	***** %-ARSENIC *****
Q4	0.02236 +/- 0.00022	0.73119 +/- 0.00244	0.00491 +/- 0.00027
Q7	0.02200 +/- 0.00025	0.72647 +/- 0.00176	0.00486 +/- 0.00027

Bullet Lead-67-95-246207

SAMPLE INTERCOMPARISON REPORT FOR 206010 NC

SAMPLE	***** %-COPPER *****	***** %-ANTIMONY *****	***** %-ARSENIC *****
Q5	0.00990 +/- 0.00038	0.67701 +/- 0.00244	0.00100 +/- 0.00007
Q6	0.00962 +/- 0.00018	0.67713 +/- 0.01093	0.00122 +/- 0.00037

Bullet Lead-68-95-246207

81206010 NC

SAMPLE	SB/AS RATIO
--------	----------------

BKG1	112.
Q11A	272.
Q11B	232.
Q11C	234.
Q2A	299.
Q2B	252.
Q2C	289.
Q3A	335.
Q3B	312.
Q3C	311.
Q4A	147.
Q4B	159.
Q4C	142.
Q5A	719.
Q5B	695.
Q5C	633.
Q6A	649.
Q6B	416.
Q6C	694.
Q7A	152.
Q7B	156.
Q7C	141.
S2416A	16.
S2416B	15.
S2416C	16.
BLANK	0.
BKG2	0.

Bullet Lead-69-95-246207

(TI)TITLE:

81206010 NC

(LN)LIBRARY: E .RESULT

(SA)SAMPLE TIME: 13 FEB 89 09:49:00

(SE)STD ENERGY TOLERANCE: 2.00

(UE)UNK ENERGY TOLERANCE: 2.00

(TF)THERMAL FLUX: 0.0000E-01

(EF)EPITHERMAL FLUX: 0.0000E-01

(FF)FAST FLUX: 0.0000E-01

(QU)UNITS: UG

Bullet Lead-70-95-246207

	ELEMENT	ENERGY	HALF-LIFE	SEC
1	%-COPPER	511.00	1.2800E 01 H	4.6080E 04
2	%-ANTIMONY	564.09	2.7200E 00 D	2.3501E 05
3	%-ARSENIC	559.30	2.6300E 01 H	9.4680E 04
4	%-ARSENIC	657.02	2.6300E 01 H	9.4680E 04

STANDARD SAMPLES

	NAME	MASS	FILE	POWER	ACT TIME
1	S2416A	12774.00 F4	.A23	100.0	100000.0
2	S2416B	12206.00 F4	.A24	100.0	100000.0
3	S2416C	11487.00 F4	.A25	100.0	100000.0

ALL STANDARDS ARE THE SAME

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	6.2800E-02	0.0000E-01
2	%-ANTIMONY	564.09	7.7200E-01	0.0000E-01
3	%-ARSENIC	559.30	4.9300E-02	0.0000E-01
4	%-ARSENIC	657.02	4.9300E-02	0.0000E-01

UNKNOWN SAMPLES

	NAME	MASS	FILE	POWER	ACT TIME
1	BKG1	12000.00 F4	.A01	100.0	100000.0
2	Q11A	15634.00 F4	.A02	100.0	100000.0
3	Q11B	14852.00 F4	.A03	100.0	100000.0
4	Q11C	14933.00 F4	.A04	100.0	100000.0
5	Q2A	12510.00 F4	.A05	100.0	100000.0
6	Q2B	11776.00 F4	.A06	100.0	100000.0
7	Q2C	11801.00 F4	.A07	100.0	100000.0
8	Q3A	12674.00 F4	.A08	100.0	100000.0
9	Q3B	13062.00 F4	.A09	100.0	100000.0
10	Q3C	12719.00 F4	.A10	100.0	100000.0
11	Q4A	13502.00 F4	.A11	100.0	100000.0
12	Q4B	14398.00 F4	.A12	100.0	100000.0
13	Q4C	13034.00 F4	.A13	100.0	100000.0
14	Q5A	13203.00 F4	.A14	100.0	100000.0
15	Q5B	13084.00 F4	.A15	100.0	100000.0
16	Q5C	11484.00 F4	.A16	100.0	100000.0
17	Q6A	13908.00 F4	.A17	100.0	100000.0
18	Q6B	13925.00 F4	.A18	100.0	100000.0
19	Q6C	14476.00 F4	.A19	100.0	100000.0
20	Q7A	16272.00 F4	.A20	100.0	100000.0
21	Q7B	16668.00 F4	.A21	100.0	100000.0
22	Q7C	15493.00 F4	.A22	100.0	100000.0

23	S2416A	12774.00	F4	.A23	100.0	100000.0
24	S2416B	12206.00	F4	.A24	100.0	100000.0
25	S2416C	117.00	F4	.A25	100.0	100000.0
26	BLANK	12000.00	F4	.A26	100.0	100000.0
27	BKG2	12000.00	F4	.A27	100.0	100000.0

Bullet Lead-71-95-246207

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS

14-FEB-89 06:01:07

S2416A

81206010 NC

SAMPLE WEIGHT: (UG) 12774.00
ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
ACQUIRE DATE: 13-FEB-89 20:32:43 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	9461.	6.2800E-02	0.0000E-01	2.3585E-02	2.5151E-04
%-ANTIMONY	564.1	45732.	7.7200E-01	0.0000E-01	5.7821E-03	2.7151E-05
%-ARSENIC	559.3	5231.	4.9300E-02	0.0000E-01	1.2285E-02	1.7841E-04
%-ARSENIC	657.0	590.	4.9300E-02	0.0000E-01	1.3845E-03	5.9438E-05

Bullet Lead-72-95-246207

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS

14-FEB-89 06:01:47

S2416B

81206010 NC

SAMPLE WEIGHT: (UG) 12206.00
ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
ACQUIRE DATE: 13-FEB-89 20:48:04 GEN 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	8971.	6.2800E-02	0.0000E-01	2.3730E-02	2.5972E-04
%-ANTIMONY	564.1	43101.	7.7200E-01	0.0000E-01	5.7185E-03	2.7669E-05
%-ARSENIC	559.3	4942.	4.9300E-02	0.0000E-01	1.2230E-02	1.8184E-04
%-ARSENIC	657.0	623.	4.9300E-02	0.0000E-01	1.5416E-03	6.4194E-05

Bullet Lead-73-95-246207

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS

14-FEB-89 06:02:27

S2416C

81206010 NC

SAMPLE WEIGHT: (UG) 11487.00
ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
ACQUIRE DATE: 13-FEB-89 21:03:24 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	8234.	6.2800E-02	0.0000E-01	2.3468E-02	2.6896E-04
%-ANTIMONY	564.1	41172.	7.7200E-01	0.0000E-01	5.8202E-03	2.8819E-05
%-ARSENIC	559.3	4574.	4.9300E-02	0.0000E-01	1.2107E-02	1.8863E-04
%-ARSENIC	657.0	574.	4.9300E-02	0.0000E-01	1.5181E-03	6.5406E-05

Bullet Lead-74-95-246207

SUMMARY OF STANDARD CONSTANTS:

1. ELEMENT %-COPPER AT 511.00 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S2416A	6.2800E-02	2.3585E-02	2.5151E-04
S2416B	6.2800E-02	2.3730E-02	2.5972E-04
S2416C	6.2800E-02	2.3468E-02	2.6896E-04
<hr/>			
MEAN CONSTANT,	3 STDS:	2.3597E-02	1.4998E-04

2. ELEMENT %-ANTIMONY AT 564.09 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S2416A	7.7200E-01	5.7821E-03	2.7151E-05
S2416B	7.7200E-01	5.7185E-03	2.7669E-05
S2416C	7.7200E-01	5.8202E-03	2.8819E-05
<hr/>			
MEAN CONSTANT,	3 STDS:	5.7725E-03	1.6082E-05

3. ELEMENT %-ARSENIC AT 559.30 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S2416A	4.9300E-02	1.2285E-02	1.7841E-04
S2416B	4.9300E-02	1.2230E-02	1.8184E-04
S2416C	4.9300E-02	1.2107E-02	1.8863E-04
<hr/>			
MEAN CONSTANT,	3 STDS:	1.2211E-02	1.0555E-04

4. ELEMENT %-ARSENIC AT 657.02 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S2416A	4.9300E-02	1.3845E-03	5.9438E-05
S2416B	4.9300E-02	1.5416E-03	6.4194E-05
S2416C	4.9300E-02	1.5181E-03	6.5406E-05
<hr/>			
MEAN CONSTANT,	3 STDS:	1.4758E-03	3.6286E-05

F. B. I. LABORATORY
ICP REPORT
81206010 NC

89/02/16

Sample	conc. (%)			
	Copper	Antimony/	Silver	Bismuth
SRM2416a	0.06445	0.79773	0.00468	0.09176
SRM2416b	0.06345	0.77750	0.00439	0.08877
SRM2416c	0.06347	0.77105	0.00446	0.09231
average	0.06379	0.78209	0.00451	0.09095
std. dev.	0.00057	0.01392	0.00014	0.00190
% r.s.d.	0.90	1.77	3.30	2.09
Q11a	0.01033	0.78647	0.00194	0.01059
Q11b	0.01024	0.80101	0.00198	0.00967
Q11c	0.01050	0.79048	0.00195	0.00906
average	0.01036	0.79265	0.00196	0.00978
std. dev.	0.00012	0.00750	0.00001	0.00076
% r.s.d.	1.24	0.94	0.80	7.86
Q2a	0.00939	0.76811	0.00197	0.01066
Q2b	0.00938	0.77939	0.00196	0.00887
Q2c	0.00953	0.78269	0.00196	0.00992
average	0.00943	0.77673	0.00196	0.00982
std. dev.	0.00008	0.00764	0.00000	0.00089
% r.s.d.	0.91	0.98	0.22	9.12
Q3a	0.00912	0.77863	0.00198	0.00969
Q3b	0.00900	0.73935	0.00193	0.00963
Q3c	0.00928	0.77705	0.00203	0.00958
average	0.00913	0.76501	0.00198	0.00963
std. dev.	0.00014	0.02223	0.00005	0.00005
% r.s.d.	1.53	2.90	2.62	0.52

Bullet Lead-76-95-246207

Method Name: 1206010NCa

Comment: Bullet Lead Analysis by ICP-AES

Read Delay : 23 sec

Replicates : 3

Format name : format-1

Analysis Number	AS Posn	Sample ID	Sequence Name	Dilution	Weight / Volume
1	1	wcal standard	bullet		
2	2	blank	bullet		
3	3	#2 standard	bullet		
4	4	#5 standard	bullet		
5	5	#10 standard	bullet		
6	6	SRM2416a	bullet		.09997/10.1
7	7	Q11a	bullet		.07535/7.6
8	8	Q2a	bullet		.08377/8.5
9	9	Q3a	bullet		.08561/8.7
10	10	SRM2416b	bullet		.09742/9.8
11	11	Q11b	bullet		.06264/6.4
12	12	Q2b	bullet		.08122/8.2
13	13	Q3b	bullet		.08689/8.8
14	14	SRM2416c	bullet		.09724/9.8
15	15	Q11c	bullet		.05011/5.1
16	16	Q2c	bullet		.08024/8.1
17	17	Q3c	bullet		.07481/7.6

Gunshot Residue and Metals Analysis Unit				
Atomic Absorption	28			
Inductively Coupled Plasma	114	NC	3	12
Met - Corrosion	50			
Met - Fract./Stress	05			
Micro. G.S.R.	73		2/16/89	
N.A.A. - G.S.R.	19			
N.A.A. - Other	35		CAP	
S.E.M.	39			
X-Ray Methods	49			
Miscellaneous - P	38			

Bullet Lead-77-95-246207

81206010 NC

Bullet Lead-78-95-246207

Element Name: Antimony

Wavelength	Height	Std Conc
206.833*	6*	#1: 1.00
217.581	10	#2: 0.99
231.147	8	#3: 22.93
252.852		#4: 30.57
259.805		#5: 38.22
217.919		#6: 45.86
195.039		#7: 53.50
		#8: 61.15
		#9: 68.79
		#10: 76.44

Source Name :	source-1
Mono Select :	A
Signal Comp :	No
PMT Voltage :	600 Volts
Survey Window :	0.080 nm
Peak Window :	0.040 nm
Sampling Time :	100 msec
Bkgd Correction :	Auto
Lower Interval :	0.032 nm
Upper Interval :	0.031 nm
Units :	ppm

Element Name: Bismuth

Wavelength	Height	Std Conc
223.061*	6*	#1: 1.00
222.825	10	#2: 0.99
206.170	4	#3: 2.67
		#4: 3.56
		#5: 4.46
		#6: 5.35
		#7: 6.24
		#8: 7.13
		#9: 8.02
		#10: 8.91

Source Name :	source-1
Mono Select :	A
Signal Comp :	No
PMT Voltage :	600 Volts
Survey Window :	0.100 nm
Peak Window :	0.040 nm
Sampling Time :	100 msec
Bkgd Correction :	Manual
Lower Interval :	0.000 nm
Upper Interval :	0.018 nm
Units :	ppm

Element Name: Copper

Wavelength	Height	Std Conc
324.754* 221.458	15*	#1: 1.00
224.700	23	#2: 0.99
219.958		#3: 1.86
327.396		#4: 2.49
213.598		#5: 3.11
223.008		#6: 3.73
222.778		#7: 4.35
221.810		#8: 4.97
219.226		#9: 5.60
217.894		#10: 6.22

Source Name :	source-1
Mono Select :	B
Signal Comp :	No
PMT Voltage :	600 Volts
Survey Window :	0.080 nm
Peak Window :	0.040 nm
Sampling Time :	100 msec
Bkgd Correction :	Auto
Lower Interval :	0.028 nm
Upper Interval :	0.031 nm
Units :	ppm

Element Name: Silver

Wavelength	Height	Std Conc
328.068*	15*	#1: 1.00
338.289	23	#2: .99
		#3: .134
		#4: .178
		#5: .223
		#6: .267
		#7: .312
		#8: .356
		#9: .397
		#10: .446

Source Name :	source-1
Mono Select :	B
Signal Comp :	No
PMT Voltage :	600 Volts
Survey Window :	0.080 nm
Peak Window :	0.040 nm
Sampling Time :	100 msec
Bkgd Correction :	Auto
Lower Interval :	0.028 nm
Upper Interval :	0.031 nm
Units :	ppm

Source Name: source-1

Power	Neb Flow	Aux Flow	Plasma Flow	Pump Rate	Equilib Time
1125*	1.000	1.0	15	1.0	15
1000	0.800				
600	0.900				
800	1.000				
1000	1.100				
1200	1.200				
1400	1.500*				
1600	2.000				
1800					

Bullet Lead-80-95-246207

81206010 NC
2/16/89
CAP

02/16/89 14:55

wcal standard	rep	1	Copper	em	-30158.7	conc	1.00	window edge
	rep	1	Antimony	em	2404.0	conc	1.00	
	rep	1	Silver	em	-1034.5	conc	1.00	window edge
	rep	1	Bismuth	em	893.5	conc	1.00	
	rep	2	Copper	em	72196.7	conc	1.00	
	rep	2	Antimony	em	2425.3	conc	1.00	
	rep	2	Silver	em	4771.6	conc	1.00	
	rep	2	Bismuth	em	952.9	conc	1.00	
	rep	3	Copper	em	73038.2	conc	1.00	
	rep	3	Antimony	em	2480.2	conc	1.00	
	rep	3	Silver	em	4840.6	conc	1.00	
	rep	3	Bismuth	em	997.5	conc	1.00	

wcal standard

02/16/89 14:55

Copper	av	38358.75	sd	59339.316	%cv	154.70	conc	1.00
Antimony	av	2436.48	sd	39.314	%cv	1.61	conc	1.00
Silver	av	2859.21	sd	3372.224	%cv	117.94	conc	1.00
Bismuth	av	947.96	sd	52.190	%cv	5.51	conc	1.00

02/16/89 14:57

blank	rep	1	Copper	em	276.2			
	rep	1	Antimony	em	26.4			
	rep	1	Silver	em	48.3			
	rep	1	Bismuth	em	21.6			
	rep	2	Copper	em	143.1			
	rep	2	Antimony	em	14.7			
	rep	2	Silver	em	98.5			
	rep	2	Bismuth	em	2.1			
	rep	3	Copper	em	207.8			
	rep	3	Antimony	em	11.7			
	rep	3	Silver	em	16.0			window edge
	rep	3	Bismuth	em	21.6			

blank

02/16/89 14:57

Copper	av	209.02	sd	66.583	%cv	31.85
Antimony	av	17.61	sd	7.732	%cv	43.92
Silver	av	54.29	sd	41.574	%cv	76.58
Bismuth	av	15.12	sd	11.244	%cv	74.38

02/16/89 14:58

#2 standard	rep	1	Copper	em	11832.7	conc	0.99
	rep	1	Antimony	em	35.3	conc	0.99
	rep	1	Silver	em	10792.8	conc	.99
	rep	1	Bismuth	em	97.5	conc	0.99
	rep	2	Copper	em	12214.5	conc	0.99
	rep	2	Antimony	em	31.9	conc	0.99
	rep	2	Silver	em	10951.8	conc	.99
	rep	2	Bismuth	em	104.2	conc	0.99
	rep	3	Copper	em	12103.8	conc	0.99
	rep	3	Antimony	em	46.1	conc	0.99
	rep	3	Silver	em	11023.9	conc	.99
	rep	3	Bismuth	em	92.1	conc	0.99

#2 standard

02/16/89 14:59

Copper	av	12050.33	sd	196.449	%cv	1.63	conc	0.99
Antimony	av	37.77	sd	7.410	%cv	19.62	conc	0.99
Silver	av	10922.84	sd	118.230	%cv	1.08	conc	0.99
Bismuth	av	97.93	sd	6.064	%cv	6.19	conc	0.99

02/16/89 15:00

#5 standard	rep	1	Copper	em	37455.7	conc	3.11
	rep	1	Antimony	em	1228.8	conc	38.22
	rep	1	Silver	em	2576.7	conc	.223
	rep	1	Bismuth	em	479.1	conc	4.46
	rep	2	Copper	em	38150.5	conc	3.11
	rep	2	Antimony	em	1248.7	conc	38.22
	rep	2	Silver	em	2516.5	conc	.223
	rep	2	Bismuth	em	508.3	conc	4.46
	rep	3	Copper	em	37556.5	conc	3.11
	rep	3	Antimony	em	1280.2	conc	38.22
	rep	3	Silver	em	2551.9	conc	.223
	rep	3	Bismuth	em	475.7	conc	4.46

#5 standard

02/16/89 15:01

Copper	av	37720.89	sd	375.444	%cv	1.00	conc	3.11
Antimony	av	1252.55	sd	25.936	%cv	2.07	conc	38.22
Silver	av	2548.372	sd	30.2604	%cv	1.19	conc	0.223
Bismuth	av	487.69	sd	17.930	%cv	3.68	conc	4.46

02/16/89 15:02

#10 standard	rep	1	Copper	em	74497.5	conc	6.22
	rep	1	Antimony	em	2516.0	conc	76.44
	rep	1	Silver	em	4894.6	conc	.446
	rep	1	Bismuth	em	988.2	conc	8.91
	rep	2	Copper	em	76164.1	conc	6.22
	rep	2	Antimony	em	2513.2	conc	76.44
	rep	2	Silver	em	4841.1	conc	.446
	rep	2	Bismuth	em	1001.2	conc	8.91
	rep	3	Copper	em	75897.5	conc	6.22
	rep	3	Antimony	em	2501.0	conc	76.44
	rep	3	Silver	em	4830.9	conc	.446
	rep	3	Bismuth	em	972.5	conc	8.91

#10 standard

02/16/89 15:03

Copper	av	75519.70	sd	895.256	%cv	1.19	conc	6.22
Antimony	av	2510.05	sd	8.006	%cv	0.32	conc	76.44
Silver	av	4855.515	sd	34.2130	%cv	0.70	conc	0.446
Bismuth	av	987.31	sd	14.338	%cv	1.45	conc	8.91

02/16/89 15:04

SRM2416a	rep	1	Copper	conc	644.64	ppm
	rep	1	Antimony	conc	7944.80	ppm
	rep	1	Silver	conc	46.618	ppm
	rep	1	Bismuth	conc	899.77	ppm
	rep	2	Copper	conc	650.42	ppm
	rep	2	Antimony	conc	8042.22	ppm
	rep	2	Silver	conc	47.520	ppm
	rep	2	Bismuth	conc	909.52	ppm
	rep	3	Copper	conc	638.62	ppm
	rep	3	Antimony	conc	7944.89	ppm
	rep	3	Silver	conc	46.301	ppm
	rep	3	Bismuth	conc	943.79	ppm

SRM2416a

02/16/89 15:05

Copper	av	644.56	ppm	sd	5.904	%cv	0.92
Antimony	av	7977.30	ppm	sd	56.219	%cv	0.70
Silver	av	46.813	ppm	sd	0.6325	%cv	1.35
Bismuth	av	917.69	ppm	sd	23.122	%cv	2.52

02/16/89 15:06

Q11a

rep	1	Copper	conc	103.90	ppm
rep	1	Antimony	conc	7817.39	ppm
rep	1	Silver	conc	19.664	ppm
rep	1	Bismuth	conc	110.28	ppm
rep	2	Copper	conc	103.96	ppm
rep	2	Antimony	conc	7845.36	ppm
rep	2	Silver	conc	19.506	ppm
rep	2	Bismuth	conc	98.56	ppm
rep	3	Copper	conc	102.29	ppm
rep	3	Antimony	conc	7931.43	ppm
rep	3	Silver	conc	19.685	ppm
rep	3	Bismuth	conc	109.00	ppm

Q11a

02/16/89 15:07

Copper	av	103.39	ppm	sd	0.945	%cv	0.91
Antimony	av	7864.73	ppm	sd	59.434	%cv	0.76
Silver	av	19.619	ppm	sd	0.0981	%cv	0.50
Bismuth	av	105.95	ppm	sd	6.426	%cv	6.07

02/16/89 15:08

Q2a

rep	1	Copper	conc	92.71	ppm
rep	1	Antimony	conc	7704.73	ppm
rep	1	Silver	conc	19.352	ppm
rep	1	Bismuth	conc	115.64	ppm
rep	2	Copper	conc	94.73	ppm
rep	2	Antimony	conc	7706.03	ppm
rep	2	Silver	conc	19.560	ppm
rep	2	Bismuth	conc	99.51	ppm
rep	3	Copper	conc	94.47	ppm
rep	3	Antimony	conc	7632.74	ppm
rep	3	Silver	conc	20.279	ppm
rep	3	Bismuth	conc	104.71	ppm

Q2a

02/16/89 15:09

Copper	av	93.97	ppm	sd	1.096	%cv	1.17
Antimony	av	7681.17	ppm	sd	41.943	%cv	0.55
Silver	av	19.730	ppm	sd	0.4866	%cv	2.47
Bismuth	av	106.62	ppm	sd	8.233	%cv	7.72

02/16/89 15:10

Q3a

rep	1	Copper	conc	91.90	ppm
rep	1	Antimony	conc	7673.32	ppm
rep	1	Silver	conc	20.102	ppm
rep	1	Bismuth	conc	96.12	ppm
rep	2	Copper	conc	90.51	ppm
rep	2	Antimony	conc	7907.90	ppm
rep	2	Silver	conc	19.625	ppm
rep	2	Bismuth	conc	93.42	ppm
rep	3	Copper	conc	91.26	ppm
rep	3	Antimony	conc	7777.83	ppm
rep	3	Silver	conc	19.883	ppm
rep	3	Bismuth	conc	101.17	ppm

Q3a

02/16/89 15:11

Copper	av	91.22	ppm	sd	0.695	%cv	0.76
Antimony	av	7786.35	ppm	sd	117.521	%cv	1.51
Silver	av	19.870	ppm	sd	0.2387	%cv	1.20
Bismuth	av	96.90	ppm	sd	3.930	%cv	4.06

02/16/89 15:12

SRM2416b

rep	1	Copper	conc	631.78	ppm
rep	1	Antimony	conc	7827.29	ppm
rep	1	Silver	conc	43.588	ppm
rep	1	Bismuth	conc	874.00	ppm
rep	2	Copper	conc	630.89	ppm
rep	2	Antimony	conc	7817.58	ppm
rep	2	Silver	conc	43.912	ppm
rep	2	Bismuth	conc	910.00	ppm
rep	3	Copper	conc	640.83	ppm
rep	3	Antimony	conc	7680.13	ppm
rep	3	Silver	conc	44.394	ppm
rep	3	Bismuth	conc	879.11	ppm

SRM2416b

02/16/89 15:12

Copper	av	634.50	ppm	sd	5.502	%cv	0.87
Antimony	av	7775.00	ppm	sd	82.300	%cv	1.06
Silver	av	43.965	ppm	sd	0.4053	%cv	0.92
Bismuth	av	887.70	ppm	sd	19.478	%cv	2.19

02/16/89 15:14

Q11b

rep	1	Copper	conc	102.12	ppm
rep	1	Antimony	conc	8022.95	ppm
rep	1	Silver	conc	20.512	ppm
rep	1	Bismuth	conc	96.26	ppm
rep	2	Copper	conc	103.33	ppm
rep	2	Antimony	conc	8009.80	ppm
rep	2	Silver	conc	19.576	ppm
rep	2	Bismuth	conc	96.58	ppm
rep	3	Copper	conc	101.92	ppm
rep	3	Antimony	conc	7997.62	ppm
rep	3	Silver	conc	19.558	ppm
rep	3	Bismuth	conc	97.55	ppm

Q11b

02/16/89 15:14

Copper	av	102.46	ppm	sd	0.765	%cv	0.75
Antimony	av	8010.12	ppm	sd	12.669	%cv	0.16
Silver	av	19.882	ppm	sd	0.5456	%cv	2.74
Bismuth	av	96.80	ppm	sd	0.671	%cv	0.69

02/16/89 15:16

Q2b

rep	1	Copper	conc	92.52	ppm
rep	1	Antimony	conc	7865.08	ppm
rep	1	Silver	conc	19.304	ppm
rep	1	Bismuth	conc	92.84	ppm
rep	2	Copper	conc	94.03	ppm
rep	2	Antimony	conc	7668.87	ppm
rep	2	Silver	conc	20.006	ppm
rep	2	Bismuth	conc	94.20	ppm
rep	3	Copper	conc	94.93	ppm
rep	3	Antimony	conc	7847.97	ppm
rep	3	Silver	conc	19.655	ppm
rep	3	Bismuth	conc	79.33	ppm

Q2b

02/16/89 15:16

Copper	av	93.83	ppm	sd	1.217	%cv	1.30
Antimony	av	7793.97	ppm	sd	108.680	%cv	1.39
Silver	av	19.655	ppm	sd	0.3511	%cv	1.79
Bismuth	av	88.79	ppm	sd	8.221	%cv	9.26

02/16/89 15:18

Q3b

rep	1	Copper	conc	89.56	ppm
rep	1	Antimony	conc	7395.96	ppm
rep	1	Silver	conc	19.379	ppm
rep	1	Bismuth	conc	93.99	ppm
rep	2	Copper	conc	90.37	ppm
rep	2	Antimony	conc	7433.06	ppm
rep	2	Silver	conc	19.353	ppm
rep	2	Bismuth	conc	97.34	ppm
rep	3	Copper	conc	90.20	ppm
rep	3	Antimony	conc	7351.51	ppm
rep	3	Silver	conc	19.245	ppm
rep	3	Bismuth	conc	97.68	ppm

Q3b

02/16/89 15:18

Copper	av	90.04	ppm	sd	0.426	%cv	0.47
Antimony	av	7393.51	ppm	sd	40.826	%cv	0.55
Silver	av	19.326	ppm	sd	0.0713	%cv	0.37
Bismuth	av	96.34	ppm	sd	2.037	%cv	2.11

02/16/89 15:20

SRM2416c

rep	1	Copper	conc	637.30	ppm
rep	1	Antimony	conc	7630.85	ppm
rep	1	Silver	conc	44.054	ppm
rep	1	Bismuth	conc	907.56	ppm
rep	2	Copper	conc	627.15	ppm
rep	2	Antimony	conc	7777.83	ppm
rep	2	Silver	conc	45.615	ppm
rep	2	Bismuth	conc	930.96	ppm
rep	3	Copper	conc	639.71	ppm
rep	3	Antimony	conc	7722.83	ppm
rep	3	Silver	conc	44.220	ppm
rep	3	Bismuth	conc	930.98	ppm

SRM2416c

02/16/89 15:20

Copper	av	634.72	ppm	sd	6.662	%cv	1.05
Antimony	av	7710.50	ppm	sd	74.261	%cv	0.96
Silver	av	44.630	ppm	sd	0.8575	%cv	1.92
Bismuth	av	923.17	ppm	sd	13.515	%cv	1.46

02/16/89 15:22

Q11c

rep	1	Copper	conc	104.82	ppm
rep	1	Antimony	conc	7935.99	ppm
rep	1	Silver	conc	19.292	ppm
rep	1	Bismuth	conc	85.84	ppm
rep	2	Copper	conc	105.33	ppm
rep	2	Antimony	conc	7734.21	ppm
rep	2	Silver	conc	20.218	ppm
rep	2	Bismuth	conc	98.29	ppm
rep	3	Copper	conc	104.88	ppm
rep	3	Antimony	conc	8044.26	ppm
rep	3	Silver	conc	19.278	ppm
rep	3	Bismuth	conc	87.86	ppm

Q11c

02/16/89 15:22

Copper	av	105.01	ppm	sd	0.279	%cv	0.27
Antimony	av	7904.82	ppm	sd	157.357	%cv	1.99
Silver	av	19.596	ppm	sd	0.5387	%cv	2.75
Bismuth	av	90.66	ppm	sd	6.682	%cv	7.37

Bullet Lead-85-95-246207

02/16/89 15:24

Q2c

rep	1	Copper	conc	96.35	ppm
rep	1	Antimony	conc	7812.08	ppm
rep	1	Silver	conc	19.665	ppm
rep	1	Bismuth	conc	97.66	ppm
rep	2	Copper	conc	94.77	ppm
rep	2	Antimony	conc	7857.51	ppm
rep	2	Silver	conc	19.530	ppm
rep	2	Bismuth	conc	106.95	ppm
rep	3	Copper	conc	95.07	ppm
rep	3	Antimony	conc	7811.16	ppm
rep	3	Silver	conc	19.768	ppm
rep	3	Bismuth	conc	93.10	ppm

Q2c

02/16/89 15:25

Copper	av	95.40	ppm	sd	0.841	%cv	0.88
Antimony	av	7826.92	ppm	sd	26.501	%cv	0.34
Silver	av	19.654	ppm	sd	0.1194	%cv	0.61
Bismuth	av	99.23	ppm	sd	7.060	%cv	7.11

02/16/89 15:26

Q3c

rep	1	Copper	conc	93.31	ppm
rep	1	Antimony	conc	7585.41	ppm
rep	1	Silver	conc	19.962	ppm
rep	1	Bismuth	conc	104.18	ppm
rep	2	Copper	conc	91.51	ppm
rep	2	Antimony	conc	7956.62	ppm
rep	2	Silver	conc	20.360	ppm
rep	2	Bismuth	conc	98.95	ppm
rep	3	Copper	conc	93.67	ppm
rep	3	Antimony	conc	7769.46	ppm
rep	3	Silver	conc	20.786	ppm
rep	3	Bismuth	conc	84.56	ppm

Q3c

02/16/89 15:27

Copper	av	92.83	ppm	sd	1.158	%cv	1.25
Antimony	av	7770.50	ppm	sd	185.609	%cv	2.39
Silver	av	20.369	ppm	sd	0.4120	%cv	2.02
Bismuth	av	95.90	ppm	sd	10.161	%cv	10.60

Bullet Lead-86-95-246207

Bullet Lead-87-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:03:14

BKG1

81206010 NC

SAMPLE WEIGHT: (UG) 12000.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 14:55:16 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 901. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	17.	94.	4.9193E-04	5.8903E-05	12.0
%-ANTIMONY	564.1	33.	1157.	0.0196	0.0006	3.0
%-ARSENIC	559.3	17.	20.	1.7525E-04	6.4056E-05	36.6
%-ARSENIC	657.0	6.	0.	< 0.0000E-01	NOT DETECTABLE	

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2042	2256	2237	2626
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	1.	1.	0.	4.	2.	1.	1.	3.	2.
1997:	2.	1.	2.	1.	2.	3.	7.	2.	3.
2006:	3.	3.	1.	3.	0.	1.	1.	0.	4.
2015:	2.	3.	2.	0.	2.	1.	3.	3.	4.
2024:	3.	4.	0.	3.	2.	1.	7.	1.	3.
2033:	7.	2.	7.	6.	8.	2.	3.	11.	11.
2042:	13.	11.	12.	6.	14.	6.	8.	2.	4.
2051:	4.	5.	4.	5.	1.	3.	2.	1.	1.
2060:	3.	2.	4.	3.	1.	1.	2.	0.	0.
2069:	1.	4.	1.	1.	4.	5.	2.	2.	2.
2078:	2.	2.	2.	1.	2.	0.	1.	1.	1.
2087:	0.	0.	0.	3.	2.	1.	0.	2.	1.
2096:	1.	1.	1.	4.	1.	4.	3.	2.	1.
2105:	1.	1.	2.	2.	4.	2.	3.	4.	3.

% COPPER 0.0005

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:03:27

BKG1

81206010 NC

SAMPLE WEIGHT: (UG) 12000.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 14:55:16 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 901. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	3.	1.	3.	0.	2.	2.	1.	2.	2.
2139:	0.	3.	1.	0.	0.	2.	0.	0.	2.
2148:	1.	2.	4.	1.	3.	1.	2.	1.	1.
2157:	3.	1.	3.	2.	3.	2.	0.	3.	3.
2166:	1.	2.	1.	2.	2.	3.	2.	2.	7.
2175:	2.	0.	1.	0.	2.	1.	1.	0.	1.
2184:	1.	4.	1.	0.	1.	1.	2.	0.	3.
2193:	0.	3.	1.	1.	3.	4.	2.	0.	2.
2202:	1.	1.	2.	2.	0.	2.	1.	1.	6.
2211:	0.	1.	1.	3.	2.	2.	0.	1.	5.
2220:	0.	3.	2.	2.	2.	2.	4.	1.	1.
2229:	1.	2.	3.	1.	4.	1.	4.	7.	2.
2238:	5.	6.	2.	1.	4.	1.	0.	2.	5.
2247:	2.	1.	3.	12.	21.	61.	106.	144.	202.
2256:	180.	179.	131.	72.	51.	20.	11.	6.	3.
2265:	1.	2.	0.	0.	1.	1.	1.	2.	0.
2274:	4.	1.	0.	3.	2.	0.	1.	2.	0.
2283:	3.	1.	1.	2.	1.	2.	0.	3.	1.
2292:	2.	0.	2.	0.	0.	0.	2.	1.	1.
2301:	0.	1.	3.	1.	1.	1.	1.	0.	1.
2310:	0.	1.	1.	2.	3.	1.	2.	0.	1.
2319:	3.	0.	1.	4.	3.	2.	1.	0.	1.
2328:	1.	2.	1.	5.	2.	11.	5.	1.	4.
2337:	2.	2.	1.	1.	1.	0.	0.	2.	1.
2346:	1.	4.	1.	0.	2.	0.	2.	1.	0.
2355:	3.	1.	0.	0.	1.	0.	1.	2.	1.
2364:	0.	1.	0.	0.	0.	2.	2.	0.	1.

% ANTIMONY 0.0196

% ARSENIC 0.0002

2598:	0.	1.	1.	0.	0.	3.	4.	0.	2.
2607:	0.	0.	2.	2.	1.	0.	1.	0.	1.
2616:	0.	1.	0.	1.	2.	1.	2.	1.	2.
2625:	1.	1.	1.	0.	1.	2.	0.	1.	1.
2634:	1.	0.	0.	1.	1.	2.	1.	0.	2.
2643:	1.	1.	1.	2.	1.	0.	0.	0.	1.

% ARSENIC 0.0000

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:04:17

Q11A

81206010 NC

SAMPLE WEIGHT: (UG) 15634.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 15:10:28 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 912. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	404.	2610.	0.0106	0.0002	2.3
%-ANTIMONY	564.1	230.	61258.	0.7994	0.0039	0.5
%-ARSENIC	559.3	324.	436.	0.0029	0.0002	7.6
%-ARSENIC	657.0	23.	60.	0.0033	0.0006	17.4

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2044	2256	2237	2629
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	31.	31.	26.	35.	29.	32.	30.	32.	40.
1997:	40.	28.	36.	29.	39.	24.	27.	34.	33.
2006:	31.	35.	30.	23.	32.	24.	33.	32.	22.
2015:	30.	27.	31.	38.	35.	36.	30.	27.	32.
2024:	39.	33.	34.	49.	35.	40.	45.	38.	44.
2033:	50.	55.	78.	97.	116.	158.	167.	230.	285.
2042:	305.	279.	270.	315.	258.	239.	221.	158.	129.
2051:	83.	63.	67.	48.	31.	37.	35.	44.	25.
2060:	33.	29.	25.	18.	28.	29.	30.	25.	23.
2069:	30.	30.	20.	25.	26.	30.	30.	28.	19.
2078:	23.	31.	24.	29.	27.	32.	16.	23.	24.
2087:	25.	28.	35.	24.	33.	28.	25.	27.	27.
2096:	28.	21.	34.	42.	31.	22.	32.	28.	22.
2105:	25.	21.	26.	25.	33.	27.	30.	26.	28.

% COPPER 0.0106

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:04:31

Q11A

S1206010 NC

SAMPLE WEIGHT: (UG) 15634.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 15:10:28 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 912. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	24.	25.	34.	28.	17.	22.	21.	17.	23.
2139:	26.	25.	31.	28.	22.	26.	20.	25.	31.
2148:	38.	14.	18.	19.	22.	28.	31.	18.	21.
2157:	25.	31.	21.	27.	31.	21.	29.	21.	31.
2166:	30.	21.	24.	28.	36.	29.	16.	26.	28.
2175:	29.	24.	29.	28.	27.	30.	26.	18.	24.
2184:	15.	23.	31.	31.	26.	22.	28.	26.	25.
2193:	31.	25.	26.	21.	25.	21.	20.	26.	25.
2202:	25.	34.	32.	32.	30.	27.	19.	36.	34.
2211:	25.	30.	30.	18.	19.	34.	21.	33.	25.
2220:	34.	38.	42.	35.	22.	34.	32.	28.	28.
2229:	32.	41.	54.	60.	84.	106.	141.	132.	154.
2238:	135.	108.	68.	72.	69.	64.	71.	71.	76.
2247:	121.	175.	294.	614.	1236.	2580.	4547.	7097.	9193.
2256:	10138.	9438.	7374.	4898.	2661.	1224.	488.	162.	62.
2265:	21.	8.	8.	9.	2.	13.	10.	15.	7.
2274:	13.	7.	7.	11.	12.	12.	13.	11.	4.
2283:	3.	12.	10.	7.	16.	5.	4.	13.	8.
2292:	9.	10.	6.	7.	7.	11.	6.	5.	9.
2301:	9.	7.	9.	11.	11.	4.	2.	8.	6.
2310:	6.	11.	7.	8.	7.	7.	10.	5.	5.
2319:	4.	7.	5.	6.	6.	6.	10.	7.	9.
2328:	8.	6.	13.	9.	14.	11.	9.	8.	11.
2337:	9.	7.	9.	4.	7.	4.	2.	3.	6.
2346:	4.	5.	9.	7.	6.	9.	11.	6.	4.
2355:	4.	6.	8.	10.	6.	6.	7.	6.	6.
2364:	12.	5.	8.	5.	8.	5.	11.	8.	13.

% ANTIMONY 0.7994

% ARSENIC 0.0029

2598:	4.	6.	3.	3.	1.	5.	7.	7.	10.
2607:	6.	9.	4.	3.	8.	9.	5.	5.	3.
2616:	4.	6.	7.	3.	7.	4.	6.	9.	10.
2625:	12.	9.	18.	9.	21.	17.	17.	4.	8.
2634:	5.	2.	4.	1.	10.	3.	4.	7.	2.
2643:	4.	4.	5.	4.	3.	1.	4.	3.	5.

% ARSENIC 0.0033

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:05:22

Q11B

81206010 NC

SAMPLE WEIGHT: (UG) 14852.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 15:25:53 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	382.	2355.	0.0102	0.0003	2.5
%-ANTIMONY	564.1	208.	58361.	0.8039	0.0040	0.5
%-ARSENIC	559.3	324.	485.	0.0035	0.0002	7.0
%-ARSENIC	657.0	27.	39.	0.0023	0.0006	24.9

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2044	2256	2237	2629
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	27.	45.	39.	31.	39.	25.	28.	25.	24.
1997:	38.	27.	39.	26.	34.	27.	31.	33.	32.
2006:	30.	24.	28.	18.	32.	34.	27.	27.	26.
2015:	26.	39.	24.	38.	30.	39.	36.	33.	32.
2024:	23.	26.	31.	29.	34.	39.	37.	54.	36.
2033:	47.	65.	63.	69.	104.	115.	183.	196.	243.
2042:	254.	298.	262.	290.	238.	214.	180.	147.	117.
2051:	90.	63.	61.	37.	50.	35.	27.	44.	39.
2060:	31.	22.	33.	29.	24.	32.	35.	21.	24.
2069:	26.	29.	25.	22.	34.	16.	23.	21.	27.
2078:	23.	32.	18.	32.	32.	22.	30.	25.	23.
2087:	22.	13.	30.	30.	21.	29.	29.	16.	27.
2096:	25.	28.	23.	28.	35.	22.	35.	19.	23.
2105:	23.	24.	19.	27.	31.	19.	24.	33.	16.

% COPPER 0.0102

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:05:43

Q11B

81206010 NC

SAMPLE WEIGHT: (UG) 14852.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 15:25:53 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	14.	21.	21.	28.	26.	20.	31.	33.	15.
2139:	17.	20.	24.	22.	22.	28.	39.	16.	30.
2148:	24.	25.	20.	16.	23.	23.	33.	26.	26.
2157:	23.	25.	19.	26.	27.	22.	21.	30.	31.
2166:	20.	23.	21.	23.	19.	28.	30.	11.	24.
2175:	25.	18.	25.	28.	12.	37.	24.	20.	36.
2184:	21.	21.	18.	21.	24.	19.	16.	28.	21.
2193:	33.	24.	27.	22.	28.	23.	27.	18.	24.
2202:	25.	28.	24.	28.	28.	32.	34.	41.	27.
2211:	32.	25.	29.	26.	28.	25.	25.	31.	27.
2220:	26.	25.	23.	32.	23.	34.	31.	34.	40.
2229:	32.	43.	63.	65.	97.	108.	130.	145.	166.
2238:	152.	116.	81.	71.	60.	72.	88.	96.	86.
2247:	125.	147.	291.	580.	1244.	2464.	4353.	6571.	8806.
2256:	9564.	8992.	7068.	4726.	2586.	1171.	444.	158.	43.
2265:	15.	10.	15.	7.	6.	5.	7.	9.	3.
2274:	7.	8.	8.	2.	5.	10.	5.	3.	8.
2283:	9.	6.	8.	8.	8.	9.	11.	4.	11.
2292:	8.	6.	3.	7.	14.	7.	4.	4.	8.
2301:	5.	6.	9.	6.	2.	3.	4.	5.	8.
2310:	4.	8.	7.	6.	7.	13.	5.	6.	4.
2319:	4.	6.	9.	5.	8.	3.	5.	12.	6.
2328:	5.	9.	11.	11.	12.	7.	14.	14.	8.
2337:	5.	6.	7.	1.	5.	12.	6.	4.	3.
2346:	6.	5.	5.	9.	6.	8.	9.	8.	8.
2355:	6.	8.	7.	6.	9.	6.	1.	10.	4.
2364:	6.	10.	12.	3.	11.	4.	10.	7.	4.

% ANTIMONY 0.8039

% ARSENIC 0.0035

2598:	3.	5.	7.	6.	3.	6.	5.	4.	5.
2607:	3.	4.	3.	6.	4.	2.	3.	6.	2.
2616:	9.	7.	4.	5.	3.	2.	5.	8.	9.
2625:	5.	9.	17.	13.	13.	11.	12.	7.	11.
2634:	6.	3.	2.	5.	10.	6.	4.	2.	8.
2643:	7.	6.	10.	5.	3.	6.	8.	9.	3.

% ARSENIC 0.0023

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:06:35

Q11C
S1206010 NC

SAMPLE WEIGHT: (UG) 14933.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 15:41:14 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	352.	2402.	0.0105	0.0003	2.4
%-ANTIMONY	564.1	197.	58720.	0.8066	0.0040	0.5
%-ARSENIC	559.3	278.	484.	0.0035	0.0002	6.7
%-ARSENIC	657.0	22.	67.	0.0040	0.0006	15.9

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2256	2236	2627
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	32.	36.	25.	31.	34.	32.	28.	31.	30.
1997:	25.	27.	28.	30.	30.	30.	30.	29.	28.
2006:	27.	37.	22.	24.	31.	24.	39.	31.	28.
2015:	32.	34.	30.	31.	28.	32.	33.	43.	35.
2024:	33.	41.	36.	35.	35.	26.	33.	35.	41.
2033:	55.	65.	85.	90.	117.	121.	181.	217.	259.
2042:	255.	268.	271.	235.	248.	216.	193.	173.	112.
2051:	85.	71.	49.	45.	51.	56.	35.	35.	24.
2060:	26.	24.	29.	19.	21.	19.	31.	27.	31.
2069:	22.	26.	33.	35.	28.	34.	30.	32.	29.
2078:	24.	21.	19.	23.	31.	19.	26.	29.	23.
2087:	27.	21.	31.	20.	20.	21.	21.	21.	28.
2096:	26.	20.	35.	33.	34.	21.	24.	33.	28.
2105:	19.	30.	16.	23.	30.	22.	19.	21.	24.

% COPPER 0.0105

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:06:48

Q11C

81206010 NC

SAMPLE WEIGHT: (UG) 14933.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 15:41:14 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	23.	23.	26.	27.	26.	25.	15.	22.	26.
2139:	28.	31.	30.	22.	20.	29.	19.	25.	15.
2148:	24.	24.	32.	21.	23.	28.	24.	22.	26.
2157:	23.	19.	27.	33.	20.	20.	22.	18.	17.
2166:	19.	20.	19.	21.	22.	27.	24.	25.	22.
2175:	29.	21.	20.	22.	22.	10.	18.	26.	28.
2184:	21.	24.	23.	21.	30.	23.	25.	23.	28.
2193:	25.	29.	13.	25.	22.	30.	24.	17.	37.
2202:	23.	19.	19.	30.	12.	37.	28.	30.	22.
2211:	21.	26.	26.	23.	30.	32.	29.	25.	19.
2220:	22.	26.	31.	44.	26.	26.	39.	27.	36.
2229:	29.	46.	38.	67.	74.	115.	141.	138.	135.
2238:	148.	103.	88.	57.	73.	52.	72.	85.	94.
2247:	109.	163.	260.	548.	1299.	2428.	4281.	6703.	8642.
2256:	9758.	8994.	7125.	4820.	2595.	1268.	456.	171.	39.
2265:	18.	12.	10.	8.	11.	13.	6.	3.	14.
2274:	9.	7.	10.	8.	8.	7.	9.	8.	13.
2283:	7.	9.	4.	7.	9.	8.	7.	9.	9.
2292:	8.	4.	4.	10.	8.	5.	4.	6.	8.
2301:	7.	6.	8.	2.	6.	9.	4.	7.	8.
2310:	7.	11.	12.	4.	4.	9.	5.	4.	13.
2319:	9.	10.	4.	4.	8.	11.	6.	6.	8.
2328:	9.	9.	13.	18.	17.	7.	6.	11.	7.
2337:	6.	6.	6.	5.	5.	2.	7.	10.	8.
2346:	7.	5.	9.	8.	2.	7.	4.	6.	7.
2355:	7.	6.	7.	5.	5.	6.	5.	2.	5.
2364:	10.	6.	9.	2.	6.	9.	6.	9.	6.

% ANTIMONY 0.8066

% ARSENIC 0.0035

2598:	6.	5.	7.	7.	2.	1.	5.	4.	7.
2607:	0.	2.	3.	1.	1.	7.	4.	8.	4.
2616:	4.	4.	4.	5.	5.	1.	7.	8.	14.
2625:	18.	18.	20.	11.	22.	15.	12.	8.	3.
2634:	8.	3.	1.	3.	5.	3.	6.	5.	3.
2643:	7.	6.	4.	6.	3.	3.	5.	2.	4.

% ARSENIC 0.0040

PAGE 2

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS

14-FEB-89 06:07:39

Q2A

81206010 NC

SAMPLE WEIGHT: (UG) 12510.00
ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
ACQUIRE DATE: 13-FEB-89 15:56:35 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	308.	1877.	0.0099	0.0003	2.7
%-ANTIMONY	564.1	188.	47195.	0.7760	0.0042	0.5
%-ARSENIC	559.3	209.	303.	0.0026	0.0002	8.9
%-ARSENIC	657.0	16.	39.	0.0028	0.0006	21.8

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2044	2256	2236	2628
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	22.	25.	27.	26.	29.	30.	33.	27.	33.
1997:	29.	22.	25.	20.	30.	24.	24.	21.	27.
2006:	22.	32.	29.	20.	33.	25.	28.	21.	24.
2015:	28.	21.	27.	29.	16.	26.	30.	27.	23.
2024:	31.	12.	18.	28.	26.	28.	32.	42.	39.
2033:	39.	54.	50.	72.	85.	110.	125.	172.	178.
2042:	222.	215.	234.	243.	185.	160.	124.	124.	93.
2051:	61.	61.	56.	39.	33.	17.	33.	23.	24.
2060:	31.	12.	19.	21.	22.	18.	25.	20.	31.
2069:	30.	17.	23.	32.	13.	15.	21.	22.	26.
2078:	26.	25.	24.	23.	18.	15.	29.	21.	22.
2087:	22.	25.	25.	20.	18.	19.	20.	19.	15.
2096:	22.	19.	17.	22.	14.	25.	16.	31.	26.
2105:	18.	20.	28.	22.	23.	17.	23.	29.	17.

% COPPER 0.0099

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS

14-FEB-89 06:07:53

Q2A

81206010 NC

SAMPLE WEIGHT: (UG)	12510.00	
ACTIVATION:	13-FEB-89 09:49:00	NIST RT4 5MIN
ACQUIRE DATE:	13-FEB-89 15:56:35	GEM 13
PRESET LIVE TIME:	900. SEC	CALIB DATE:
ELAPSED REAL TIME:	909. SEC	13-FEB-89 14:27:53
ELAPSED LIVE TIME:	900. SEC	KEV/CHNL:
		0.2500000
		OFFSET:
		-0.0000228 KEV

2130:	25.	16.	24.	17.	30.	17.	24.	19.	18.
2139:	17.	23.	18.	12.	24.	25.	19.	21.	27.
2148:	19.	27.	25.	14.	13.	29.	18.	17.	24.
2157:	17.	25.	20.	18.	11.	12.	17.	26.	20.
2166:	26.	20.	27.	20.	20.	21.	20.	16.	11.
2175:	30.	25.	23.	26.	16.	20.	19.	25.	23.
2184:	21.	29.	20.	21.	20.	24.	18.	12.	22.
2193:	17.	13.	23.	25.	18.	27.	20.	24.	27.
2202:	10.	27.	14.	25.	18.	16.	17.	22.	13.
2211:	20.	20.	15.	21.	24.	21.	20.	21.	22.
2220:	34.	20.	22.	22.	23.	29.	20.	26.	25.
2229:	31.	33.	33.	56.	87.	74.	85.	105.	115.
2238:	101.	70.	62.	52.	56.	55.	57.	57.	61.
2247:	75.	133.	228.	449.	1031.	1919.	3494.	5317.	7015.
2256:	7614.	7396.	5750.	3901.	2151.	963.	383.	143.	32.
2265:	13.	9.	7.	5.	8.	6.	5.	6.	8.
2274:	9.	12.	6.	8.	11.	7.	9.	8.	7.
2283:	7.	7.	7.	4.	7.	5.	4.	3.	8.
2292:	2.	5.	9.	4.	11.	5.	8.	12.	4.
2301:	11.	8.	3.	7.	2.	7.	5.	6.	3.
2310:	4.	8.	9.	7.	11.	7.	4.	7.	11.
2319:	3.	5.	2.	8.	4.	10.	4.	5.	3.
2328:	10.	4.	4.	8.	12.	11.	11.	7.	6.
2337:	10.	5.	8.	8.	5.	1.	3.	6.	9.
2346:	7.	8.	5.	3.	7.	3.	3.	8.	4.
2355:	3.	1.	4.	4.	7.	6.	8.	9.	4.
2364:	8.	9.	7.	5.	3.	5.	8.	5.	6.

% ANTIMONY 0.7760

% ARSENIC 0.0026

2598:	3.	5.	5.	1.	3.	8.	4.	3.	5.
2607:	2.	4.	5.	4.	6.	3.	7.	4.	3.
2616:	3.	7.	1.	4.	5.	4.	9.	3.	7.
2625:	9.	8.	12.	16.	8.	11.	5.	6.	7.
2634:	5.	5.	6.	3.	1.	7.	3.	5.	3.
2643:	4.	1.	2.	1.	4.	4.	2.	3.	8.

% ARSENIC 0.0028

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:08:44

G2B

81206010 NC

SAMPLE WEIGHT: (UG) 11776.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 16:11:55 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	271.	1631.	0.0093	0.0003	2.9
%-ANTIMONY	564.1	177.	43744.	0.7662	0.0043	0.6
%-ARSENIC	559.3	227.	331.	0.0030	0.0003	8.5
%-ARSENIC	657.0	14.	46.	0.0035	0.0007	18.9

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2044	2256	2236	2629
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	23.	21.	26.	19.	26.	27.	25.	24.	23.
1997:	21.	24.	16.	24.	17.	26.	18.	21.	19.
2006:	33.	19.	20.	25.	28.	33.	20.	28.	29.
2015:	24.	19.	29.	20.	14.	25.	27.	26.	26.
2024:	18.	28.	35.	33.	27.	25.	21.	22.	38.
2033:	46.	41.	53.	61.	77.	87.	123.	148.	158.
2042:	186.	200.	192.	175.	181.	153.	117.	99.	83.
2051:	62.	59.	45.	35.	21.	29.	26.	24.	22.
2060:	24.	25.	23.	16.	21.	20.	23.	21.	15.
2069:	18.	22.	19.	13.	24.	19.	26.	13.	20.
2078:	16.	23.	15.	18.	14.	25.	18.	15.	20.
2087:	22.	20.	27.	14.	25.	20.	13.	28.	14.
2096:	15.	12.	20.	18.	23.	26.	18.	25.	16.
2105:	11.	20.	21.	29.	20.	29.	26.	17.	14.

% COPPER 0.0093

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS

14-FEB-89 06:08:57

Q2B

81206010 NC

SAMPLE WEIGHT: (UG) 11776.00
ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
ACQUIRE DATE: 13-FEB-89 16:11:55 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	15.	9.	17.	12.	18.	18.	16.	13.	20.
2139:	19.	16.	20.	24.	23.	18.	22.	14.	16.
2148:	24.	19.	17.	24.	14.	24.	9.	15.	17.
2157:	13.	18.	16.	23.	19.	15.	18.	18.	18.
2166:	22.	21.	18.	15.	21.	19.	19.	25.	18.
2175:	22.	14.	21.	27.	17.	14.	17.	19.	14.
2184:	17.	25.	20.	17.	20.	19.	23.	14.	23.
2193:	15.	15.	14.	19.	27.	13.	21.	21.	27.
2202:	20.	18.	31.	14.	19.	13.	18.	28.	17.
2211:	22.	13.	18.	22.	15.	20.	25.	32.	24.
2220:	28.	18.	16.	25.	20.	19.	20.	30.	30.
2229:	20.	28.	42.	38.	57.	87.	104.	105.	92.
2238:	85.	76.	40.	48.	38.	36.	53.	66.	80.
2247:	75.	141.	239.	501.	1106.	2126.	3639.	5355.	6739.
2256:	7203.	6339.	4968.	3213.	1651.	770.	311.	96.	33.
2265:	14.	12.	5.	7.	6.	6.	10.	7.	4.
2274:	3.	7.	8.	11.	8.	12.	6.	7.	5.
2283:	6.	4.	7.	4.	7.	6.	7.	5.	9.
2292:	5.	5.	4.	6.	5.	4.	5.	6.	6.
2301:	2.	5.	7.	7.	7.	6.	4.	10.	7.
2310:	3.	6.	4.	6.	6.	6.	5.	5.	3.
2319:	7.	9.	3.	7.	6.	2.	3.	3.	5.
2328:	5.	10.	12.	12.	9.	11.	12.	5.	7.
2337:	5.	8.	7.	4.	7.	5.	3.	2.	6.
2346:	4.	1.	8.	8.	8.	4.	3.	4.	4.
2355:	1.	2.	4.	6.	2.	5.	7.	1.	4.
2364:	8.	5.	7.	3.	6.	2.	7.	1.	9.

% ANTIMONY 0.7662

% ARSENIC 0.0030

2598:	0.	2.	4.	1.	0.	0.	5.	6.	1.
2607:	4.	2.	7.	0.	6.	6.	2.	3.	5.
2616:	3.	2.	6.	1.	3.	0.	2.	6.	6.
2625:	6.	6.	10.	21.	6.	13.	10.	5.	1.
2634:	4.	3.	2.	4.	5.	2.	2.	4.	4.
2643:	1.	4.	4.	3.	2.	4.	4.	3.	6.

% ARSENIC 0.0035

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:09:48

Q2C

81206010 NC

SAMPLE WEIGHT: (UG) 11801.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 16:27:16 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	301.	1612.	0.0093	0.0003	3.0
%-ANTIMONY	564.1	171.	44279.	0.7760	0.0043	0.6
%-ARSENIC	559.3	199.	291.	0.0027	0.0002	9.1
%-ARSENIC	657.0	13.	31.	0.0024	0.0006	24.5

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2255	2236	2628
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	27.	29.	23.	27.	22.	25.	25.	20.	22.
1997:	23.	30.	17.	22.	28.	19.	17.	23.	29.
2006:	15.	25.	32.	20.	21.	18.	14.	26.	26.
2015:	20.	27.	19.	22.	36.	29.	25.	23.	20.
2024:	26.	27.	15.	36.	26.	28.	28.	20.	47.
2033:	28.	54.	61.	62.	76.	115.	125.	155.	158.
2042:	175.	202.	201.	178.	169.	145.	126.	88.	50.
2051:	56.	56.	33.	37.	41.	19.	23.	21.	19.
2060:	18.	24.	14.	19.	17.	15.	23.	31.	24.
2069:	22.	21.	8.	27.	25.	27.	16.	21.	25.
2078:	26.	23.	18.	23.	21.	18.	31.	19.	24.
2087:	22.	19.	25.	28.	24.	23.	15.	18.	18.
2096:	28.	18.	20.	13.	17.	25.	21.	16.	19.
2105:	19.	26.	12.	7.	20.	18.	15.	21.	16.

% COPPER 0.0093

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:10:01

Q2C

81206010 NC

SAMPLE WEIGHT: (UG) 11801.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 16:27:16 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	16.	22.	22.	15.	18.	17.	26.	24.	15.
2139:	25.	19.	14.	19.	18.	20.	22.	15.	12.
2148:	14.	20.	18.	8.	17.	21.	25.	15.	31.
2157:	21.	22.	18.	13.	19.	22.	17.	19.	12.
2166:	17.	28.	18.	14.	17.	30.	17.	19.	20.
2175:	22.	16.	23.	16.	11.	26.	14.	23.	14.
2184:	12.	14.	14.	24.	15.	19.	11.	19.	21.
2193:	15.	13.	20.	24.	18.	19.	12.	19.	10.
2202:	19.	19.	22.	23.	20.	16.	18.	17.	19.
2211:	16.	21.	21.	15.	25.	16.	20.	19.	22.
2220:	28.	24.	19.	19.	21.	18.	14.	17.	26.
2229:	23.	30.	46.	40.	69.	74.	96.	97.	93.
2238:	74.	69.	63.	39.	44.	45.	56.	48.	66.
2247:	91.	143.	278.	595.	1198.	2480.	4133.	5717.	7066.
2256:	7443.	6329.	4488.	2715.	1422.	586.	212.	70.	27.
2265:	11.	12.	3.	10.	4.	8.	5.	3.	5.
2274:	7.	3.	6.	9.	11.	7.	6.	10.	6.
2283:	7.	9.	4.	8.	8.	6.	1.	7.	6.
2292:	7.	10.	12.	5.	2.	6.	3.	5.	7.
2301:	11.	3.	8.	6.	5.	10.	3.	3.	5.
2310:	5.	4.	9.	4.	9.	4.	8.	8.	5.
2319:	10.	4.	3.	4.	7.	6.	6.	4.	10.
2328:	4.	7.	4.	5.	11.	4.	13.	6.	8.
2337:	2.	5.	5.	10.	5.	5.	6.	2.	5.
2346:	2.	6.	6.	7.	8.	5.	6.	8.	4.
2355:	4.	6.	5.	5.	10.	2.	7.	5.	4.
2364:	7.	4.	4.	5.	3.	3.	1.	5.	6.

% ANTIMONY 0.7760

% ARSENIC 0.0027

2598:	7.	1.	3.	2.	1.	1.	1.	5.	2.
2607:	5.	3.	4.	5.	3.	5.	6.	6.	3.
2616:	1.	4.	4.	6.	3.	1.	5.	4.	6.
2625:	5.	11.	11.	5.	7.	10.	7.	4.	5.
2634:	4.	3.	3.	2.	8.	6.	1.	3.	4.
2643:	4.	4.	2.	2.	1.	6.	5.	2.	4.

% ARSENIC 0.0024

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:10:53

Q3A

81206010 NC

SAMPLE WEIGHT: (UG) 12674.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 16:42:37 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	290.	1644.	0.0089	0.0003	2.9
%-ANTIMONY	564.1	177.	47225.	0.7727	0.0042	0.5
%-ARSENIC	559.3	210.	267.	0.0023	0.0002	9.9
%-ARSENIC	657.0	24.	23.	0.0016	0.0006	37.1

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2255	2236	2628
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	26.	21.	33.	32.	19.	26.	24.	32.	22.
1997:	20.	24.	13.	24.	21.	24.	22.	30.	33.
2006:	22.	21.	28.	23.	29.	24.	19.	26.	20.
2015:	20.	19.	35.	16.	26.	23.	24.	22.	27.
2024:	19.	16.	17.	24.	34.	20.	20.	20.	37.
2033:	42.	55.	71.	68.	74.	124.	135.	147.	165.
2042:	200.	187.	160.	189.	171.	147.	124.	111.	72.
2051:	74.	58.	47.	28.	34.	21.	21.	21.	26.
2060:	23.	25.	15.	17.	21.	19.	19.	18.	28.
2069:	30.	27.	20.	25.	18.	20.	16.	24.	18.
2078:	20.	18.	17.	19.	22.	28.	23.	24.	23.
2087:	25.	20.	27.	23.	17.	25.	15.	19.	18.
2096:	10.	21.	17.	21.	29.	23.	24.	29.	19.
2105:	26.	25.	19.	18.	22.	17.	14.	17.	23.

% COPPER 0.0089

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:11:06

Q3A

81206010 NC

SAMPLE WEIGHT: (UG) 12674.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 16:42:37 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	21.	18.	20.	11.	20.	20.	18.	22.	20.
2139:	22.	18.	18.	11.	20.	17.	23.	13.	20.
2148:	20.	8.	24.	16.	24.	9.	17.	15.	15.
2157:	12.	26.	25.	20.	19.	25.	29.	20.	24.
2166:	21.	13.	18.	16.	18.	17.	17.	21.	25.
2175:	20.	30.	20.	15.	10.	18.	20.	25.	19.
2184:	16.	15.	22.	21.	23.	18.	11.	13.	19.
2193:	19.	20.	21.	28.	24.	20.	20.	20.	21.
2202:	15.	23.	15.	21.	14.	25.	22.	17.	21.
2211:	16.	17.	21.	19.	27.	20.	15.	24.	26.
2220:	21.	15.	20.	18.	18.	31.	21.	21.	34.
2229:	18.	34.	42.	45.	64.	74.	91.	92.	81.
2238:	84.	66.	49.	43.	56.	54.	64.	67.	65.
2247:	106.	151.	290.	549.	1232.	2425.	4233.	6025.	7519.
2256:	7804.	6906.	5047.	3075.	1611.	686.	235.	70.	22.
2265:	11.	11.	7.	8.	13.	9.	2.	13.	13.
2274:	6.	4.	8.	4.	7.	8.	4.	7.	7.
2283:	10.	7.	7.	4.	6.	14.	8.	6.	3.
2292:	3.	9.	9.	7.	4.	4.	8.	6.	5.
2301:	6.	6.	12.	13.	7.	6.	7.	4.	5.
2310:	5.	4.	5.	4.	7.	2.	8.	2.	8.
2319:	6.	3.	2.	7.	5.	5.	7.	4.	5.
2328:	4.	7.	11.	9.	10.	18.	11.	7.	3.
2337:	6.	5.	5.	4.	8.	4.	13.	6.	5.
2346:	4.	3.	4.	6.	8.	2.	2.	6.	6.
2355:	8.	6.	7.	5.	6.	5.	6.	3.	4.
2364:	5.	4.	7.	8.	1.	0.	2.	6.	3.

% ANTIMONY 0.7727

% ARSENIC 0.0023

2598:	5.	5.	5.	5.	6.	2.	4.	8.	7.
2607:	2.	4.	2.	4.	3.	3.	3.	8.	5.
2616:	4.	3.	6.	4.	2.	5.	4.	4.	10.
2625:	5.	8.	10.	11.	8.	9.	1.	3.	3.
2634:	5.	4.	7.	3.	7.	5.	5.	2.	7.
2643:	4.	4.	3.	5.	4.	8.	2.	6.	3.

% ARSENIC 0.0016

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:11:57

Q3B

81206010 NC

SAMPLE WEIGHT: (UG) 13062.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 16:57:57 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 910. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	298.	1753.	0.0094	0.0003	2.8
%-ANTIMONY	564.1	171.	47902.	0.7626	0.0041	0.5
%-ARSENIC	559.3	215.	290.	0.0024	0.0002	9.3
%-ARSENIC	657.0	16.	50.	0.0035	0.0006	18.3

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2044	2256	2236	2628
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	30.	34.	24.	39.	28.	28.	23.	24.	22.
1997:	34.	21.	25.	26.	27.	24.	18.	25.	27.
2006:	24.	24.	21.	20.	22.	33.	28.	28.	33.
2015:	24.	36.	30.	22.	29.	32.	21.	22.	19.
2024:	23.	26.	28.	24.	25.	21.	30.	29.	39.
2033:	37.	45.	66.	52.	82.	101.	145.	161.	197.
2042:	204.	185.	214.	197.	164.	151.	131.	112.	89.
2051:	58.	48.	42.	27.	30.	23.	28.	22.	16.
2060:	28.	18.	27.	20.	17.	20.	21.	19.	20.
2069:	26.	26.	16.	25.	24.	26.	20.	25.	15.
2078:	21.	20.	26.	21.	23.	26.	24.	20.	13.
2087:	18.	19.	20.	21.	12.	17.	19.	18.	18.
2096:	19.	16.	24.	19.	15.	18.	16.	23.	21.
2105:	21.	26.	22.	32.	17.	17.	26.	18.	21.

% COPPER 0.0094

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:12:10

Q3B

81206010 NC

SAMPLE WEIGHT: (UG) 13062.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 16:57:57 GEN 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 910. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	15.	15.	12.	21.	20.	19.	16.	12.	21.
2139:	27.	16.	17.	14.	23.	17.	16.	18.	18.
2148:	22.	8.	10.	18.	13.	19.	19.	18.	22.
2157:	16.	12.	20.	15.	24.	11.	22.	13.	15.
2166:	20.	21.	19.	15.	14.	25.	11.	22.	28.
2175:	19.	16.	12.	25.	16.	20.	17.	12.	20.
2184:	24.	22.	18.	23.	16.	24.	18.	19.	23.
2193:	20.	15.	26.	20.	20.	21.	16.	16.	26.
2202:	22.	21.	17.	19.	20.	17.	18.	20.	12.
2211:	23.	11.	28.	19.	23.	22.	23.	20.	17.
2220:	19.	32.	20.	24.	16.	38.	26.	31.	25.
2229:	28.	32.	36.	52.	55.	74.	81.	101.	99.
2238:	91.	68.	69.	43.	51.	53.	61.	61.	84.
2247:	103.	134.	267.	566.	1164.	2301.	3991.	6007.	7687.
2256:	7990.	7134.	5289.	3225.	1693.	742.	284.	95.	24.
2265:	14.	12.	7.	9.	8.	10.	7.	10.	6.
2274:	6.	5.	6.	5.	4.	9.	4.	4.	6.
2283:	3.	11.	10.	5.	9.	8.	10.	6.	7.
2292:	5.	6.	6.	7.	4.	3.	11.	5.	2.
2301:	9.	10.	6.	10.	10.	3.	5.	3.	6.
2310:	8.	9.	9.	10.	4.	3.	6.	4.	8.
2319:	3.	5.	2.	6.	7.	10.	8.	6.	2.
2328:	10.	8.	9.	9.	11.	5.	9.	9.	7.
2337:	5.	7.	4.	5.	8.	6.	5.	5.	6.
2346:	6.	6.	8.	7.	5.	5.	4.	2.	5.
2355:	4.	2.	10.	4.	2.	5.	3.	4.	8.
2364:	8.	4.	5.	5.	6.	7.	5.	3.	5.

% ANTIMONY 0.7626

% ARSENIC 0.0024

2598:	6.	6.	4.	2.	7.	0.	1.	2.	2.
2607:	3.	2.	2.	2.	7.	2.	6.	2.	0.
2616:	4.	2.	3.	2.	0.	3.	2.	5.	5.
2625:	8.	13.	15.	9.	15.	13.	8.	7.	3.
2634:	2.	3.	4.	5.	1.	1.	0.	4.	4.
2643:	0.	5.	1.	8.	1.	6.	3.	1.	4.

% ARSENIC 0.0035

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:13:02

Q3C

81206010 NC

SAMPLE WEIGHT: (UG) 12719.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 17:13:18 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	275.	1723.	0.0096	0.0003	2.8
%-ANTIMONY	564.1	178.	46702.	0.7656	0.0041	0.5
%-ARSENIC	559.3	244.	283.	0.0025	0.0002	9.9
%-ARSENIC	657.0	23.	32.	0.0023	0.0006	27.9

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2255	2236	2627
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	25.	32.	27.	25.	12.	29.	21.	34.	19.
1997:	24.	30.	23.	24.	22.	34.	32.	30.	19.
2006:	19.	19.	29.	31.	24.	23.	22.	36.	25.
2015:	32.	24.	34.	26.	14.	20.	20.	10.	30.
2024:	26.	33.	21.	25.	28.	31.	29.	33.	31.
2033:	37.	41.	36.	59.	70.	108.	111.	163.	169.
2042:	214.	213.	210.	200.	169.	152.	117.	102.	61.
2051:	63.	46.	44.	35.	22.	33.	27.	21.	19.
2060:	23.	25.	18.	14.	18.	20.	10.	21.	15.
2069:	13.	29.	17.	22.	19.	24.	28.	19.	19.
2078:	22.	27.	27.	22.	23.	20.	22.	18.	19.
2087:	23.	15.	13.	14.	15.	23.	24.	15.	24.
2096:	14.	17.	14.	21.	19.	28.	25.	25.	25.
2105:	15.	15.	24.	16.	14.	24.	23.	24.	22.

% COPPER 0.0096

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:13:15

Q3C

81206010 NC

SAMPLE WEIGHT: (UG) 12719.00

ACTIVATION: 13-FEB-89 09:49:00

NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 17:13:18

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 909. SEC

KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0000228 KEV

2130:	19.	15.	27.	22.	16.	18.	17.	15.	24.
2139:	20.	18.	16.	12.	15.	17.	27.	15.	18.
2148:	25.	19.	22.	14.	19.	22.	16.	18.	10.
2157:	20.	24.	17.	18.	19.	13.	23.	14.	19.
2166:	20.	13.	26.	16.	24.	19.	17.	27.	19.
2175:	20.	18.	12.	15.	26.	17.	15.	15.	18.
2184:	18.	11.	26.	20.	32.	26.	21.	17.	12.
2193:	21.	26.	18.	13.	11.	19.	19.	17.	20.
2202:	20.	22.	18.	24.	25.	18.	21.	27.	23.
2211:	26.	19.	20.	20.	14.	17.	20.	18.	27.
2220:	20.	19.	17.	18.	26.	30.	16.	31.	25.
2229:	33.	29.	43.	53.	55.	69.	84.	91.	100.
2238:	89.	67.	57.	73.	38.	56.	56.	71.	83.
2247:	89.	141.	287.	497.	1214.	2127.	3888.	5781.	7219.
2256:	7807.	7021.	5203.	3315.	1762.	759.	278.	84.	25.
2265:	10.	10.	6.	5.	4.	8.	4.	7.	5.
2274:	3.	11.	4.	6.	5.	10.	7.	5.	6.
2283:	6.	3.	7.	10.	4.	11.	5.	10.	5.
2292:	9.	5.	9.	17.	6.	5.	3.	9.	10.
2301:	9.	1.	9.	7.	2.	10.	2.	7.	5.
2310:	2.	6.	5.	3.	2.	3.	1.	6.	8.
2319:	4.	3.	5.	6.	8.	8.	3.	5.	8.
2328:	10.	6.	7.	6.	9.	11.	10.	9.	15.
2337:	7.	4.	1.	9.	8.	3.	3.	2.	8.
2346:	4.	5.	6.	7.	5.	5.	6.	7.	4.
2355:	3.	5.	10.	6.	2.	5.	4.	4.	2.
2364:	2.	7.	7.	6.	7.	3.	6.	3.	5.

% ANTIMONY 0.7656

% ARSENIC 0.0025

2598:	3.	5.	4.	5.	5.	9.	4.	2.	9.
2607:	2.	2.	1.	4.	4.	2.	8.	3.	4.
2616:	7.	3.	9.	2.	2.	5.	5.	7.	8.
2625:	7.	11.	9.	16.	11.	6.	5.	6.	4.
2634:	2.	5.	1.	5.	0.	4.	5.	3.	6.
2643:	3.	2.	2.	6.	3.	5.	2.	1.	5.

% ARSENIC 0.0023

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:14:06

Q4A

81206010 NC

SAMPLE WEIGHT: (UG) 13502.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 17:28:39 GEN 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	309.	4218.	0.0224	0.0004	1.8
%-ANTIMONY	564.1	161.	47387.	0.7338	0.0040	0.5
%-ARSENIC	559.3	228.	605.	0.0050	0.0003	5.5
%-ARSENIC	657.0	16.	75.	0.0051	0.0007	14.0

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2044	2256	2236	2627
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	28.	31.	25.	24.	19.	20.	27.	26.	30.
1997:	42.	29.	23.	23.	17.	32.	30.	22.	24.
2006:	23.	24.	29.	24.	25.	18.	19.	28.	22.
2015:	37.	27.	24.	29.	21.	30.	31.	29.	19.
2024:	29.	32.	35.	31.	27.	37.	38.	51.	55.
2033:	54.	88.	95.	113.	183.	234.	270.	339.	394.
2042:	434.	474.	466.	468.	415.	336.	282.	225.	190.
2051:	126.	102.	75.	56.	62.	37.	37.	27.	26.
2060:	31.	27.	17.	19.	22.	34.	24.	17.	26.
2069:	13.	27.	26.	14.	21.	18.	20.	25.	18.
2078:	29.	25.	18.	18.	20.	16.	28.	13.	28.
2087:	14.	21.	29.	14.	19.	16.	18.	22.	22.
2096:	20.	20.	20.	27.	19.	27.	21.	22.	15.
2105:	17.	34.	17.	18.	14.	22.	26.	21.	21.

% COPPER 0.0224

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:14:19

Q4A

S1206010 NC

SAMPLE WEIGHT: (UG) 13502.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 17:28:39 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	21.	22.	17.	20.	19.	25.	17.	23.	21.
2139:	14.	30.	21.	14.	22.	20.	15.	14.	22.
2148:	26.	23.	16.	28.	24.	17.	27.	22.	25.
2157:	18.	16.	15.	15.	21.	18.	23.	16.	23.
2166:	15.	17.	33.	21.	23.	15.	23.	21.	13.
2175:	18.	21.	14.	16.	17.	18.	19.	25.	25.
2184:	18.	27.	22.	21.	18.	18.	26.	18.	18.
2193:	18.	22.	19.	23.	20.	15.	21.	21.	28.
2202:	17.	15.	23.	17.	25.	19.	18.	31.	17.
2211:	18.	21.	16.	23.	16.	23.	25.	29.	25.
2220:	18.	25.	30.	27.	25.	24.	18.	23.	29.
2229:	26.	39.	43.	69.	80.	125.	164.	182.	166.
2238:	147.	115.	73.	71.	53.	51.	53.	75.	70.
2247:	94.	161.	276.	546.	1101.	2169.	3838.	5787.	7268.
2256:	7955.	7068.	5472.	3394.	1783.	857.	310.	76.	34.
2265:	9.	11.	3.	2.	8.	6.	4.	5.	6.
2274:	5.	5.	8.	4.	8.	2.	5.	8.	13.
2283:	9.	8.	4.	4.	7.	4.	3.	5.	5.
2292:	9.	5.	5.	8.	4.	8.	5.	9.	2.
2301:	6.	5.	8.	6.	12.	9.	7.	3.	6.
2310:	14.	5.	3.	5.	5.	3.	8.	9.	2.
2319:	10.	3.	4.	5.	4.	3.	10.	9.	5.
2328:	4.	5.	9.	9.	8.	7.	10.	8.	6.
2337:	8.	1.	9.	6.	5.	6.	5.	4.	6.
2346:	6.	5.	1.	3.	5.	7.	8.	4.	2.
2355:	2.	2.	13.	4.	1.	2.	4.	9.	5.
2364:	3.	6.	4.	7.	3.	3.	3.	5.	4.

% ANTIMONY 0.7338

% ARSENIC 0.0050

2598:	4.	2.	4.	4.	4.	2.	2.	2.	5.
2607:	6.	4.	4.	2.	6.	5.	4.	5.	2.
2616:	6.	1.	3.	2.	4.	5.	4.	7.	12.
2625:	16.	16.	22.	18.	19.	13.	6.	7.	11.
2634:	2.	2.	3.	5.	6.	3.	3.	5.	2.
2643:	7.	1.	4.	2.	4.	5.	2.	2.	4.

% ARSENIC 0.0051

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:15:11

Q4B

81206010 NC

SAMPLE WEIGHT: (UG) 14398.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 17:43:59 GEN 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 910. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	318.	4374.	0.0221	0.0004	1.7
%-ANTIMONY	564.1	193.	50197.	0.7309	0.0039	0.5
%-ARSENIC	559.3	274.	589.	0.0046	0.0003	5.8
%-ARSENIC	657.0	25.	62.	0.0040	0.0007	17.3

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2256	2236	2629
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	30.	26.	32.	28.	23.	23.	28.	22.	28.
1997:	26.	29.	21.	20.	22.	35.	25.	27.	21.
2006:	24.	27.	22.	34.	28.	27.	29.	26.	19.
2015:	29.	33.	29.	26.	29.	22.	28.	17.	31.
2024:	26.	28.	38.	30.	38.	38.	41.	51.	66.
2033:	60.	76.	100.	122.	182.	221.	280.	376.	408.
2042:	462.	469.	483.	466.	436.	366.	306.	237.	171.
2051:	145.	96.	67.	53.	44.	38.	30.	30.	27.
2060:	31.	25.	25.	22.	31.	21.	22.	19.	18.
2069:	29.	37.	21.	19.	23.	17.	35.	20.	15.
2078:	21.	28.	24.	23.	40.	15.	20.	23.	14.
2087:	23.	25.	15.	22.	24.	18.	25.	25.	15.
2096:	37.	21.	16.	28.	20.	26.	20.	21.	18.
2105:	28.	27.	28.	17.	25.	23.	25.	23.	19.

% COPPER 0.0221

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:15:24

Q4B

S1206010 NC

SAMPLE WEIGHT: (UG)	14398.00	
ACTIVATION:	13-FEB-89 09:49:00	NIST RT4 5MIN
ACQUIRE DATE:	13-FEB-89 17:43:59	GEM 13
PRESET LIVE TIME:	900. SEC	CALIB DATE:
ELAPSED REAL TIME:	910. SEC	13-FEB-89 14:27:53
ELAPSED LIVE TIME:	900. SEC	KEV/CHNL:
		0.2500000
		OFFSET:
		-0.0000228 KEV

2130:	15.	20.	30.	13.	17.	18.	24.	23.	18.
2139:	23.	17.	26.	18.	19.	26.	16.	25.	15.
2148:	21.	26.	18.	18.	17.	19.	22.	23.	24.
2157:	16.	26.	21.	13.	23.	27.	16.	23.	13.
2166:	28.	17.	16.	25.	25.	21.	31.	16.	26.
2175:	20.	17.	16.	24.	25.	16.	20.	27.	19.
2184:	19.	18.	17.	20.	18.	25.	17.	25.	21.
2193:	18.	23.	12.	18.	23.	13.	26.	21.	33.
2202:	25.	25.	20.	29.	30.	20.	22.	17.	24.
2211:	29.	27.	19.	21.	17.	20.	19.	16.	18.
2220:	26.	20.	23.	28.	33.	27.	29.	25.	25.
2229:	46.	47.	53.	56.	105.	149.	161.	161.	146.
2238:	139.	99.	83.	70.	42.	51.	45.	66.	92.
2247:	98.	153.	279.	564.	1183.	2398.	4174.	6046.	7640.
2256:	8325.	7566.	5684.	3672.	1976.	849.	313.	97.	23.
2265:	14.	6.	5.	12.	7.	6.	8.	7.	10.
2274:	8.	5.	7.	7.	7.	6.	5.	4.	4.
2283:	7.	6.	9.	9.	7.	6.	9.	7.	8.
2292:	8.	6.	4.	6.	8.	4.	11.	7.	4.
2301:	6.	10.	1.	4.	7.	4.	6.	8.	8.
2310:	3.	7.	5.	7.	4.	5.	5.	5.	11.
2319:	6.	4.	7.	4.	6.	4.	5.	4.	10.
2328:	8.	10.	4.	7.	10.	6.	13.	9.	13.
2337:	14.	8.	3.	8.	3.	4.	2.	6.	3.
2346:	7.	2.	5.	5.	4.	4.	7.	4.	9.
2355:	8.	5.	3.	5.	4.	4.	3.	7.	6.
2364:	7.	5.	0.	3.	4.	7.	7.	7.	4.

% ANTIMONY 0.7309

% ARSENIC 0.0046

2598:	6.	4.	2.	4.	7.	2.	5.	2.	8.
2607:	2.	5.	3.	6.	7.	7.	3.	0.	4.
2616:	4.	1.	3.	4.	3.	6.	8.	8.	9.
2625:	10.	10.	16.	17.	24.	15.	15.	15.	2.
2634:	3.	5.	8.	6.	5.	6.	0.	3.	4.
2643:	5.	4.	3.	4.	5.	4.	9.	4.	5.

% ARSENIC 0.0040

PAGE 2

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS

14-FEB-89 06:16:15

Q4C

S1206010 NC

SAMPLE WEIGHT: (UG) 13034.00
ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
ACQUIRE DATE: 13-FEB-89 17:59:20 GEN 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	312.	3981.	0.0225	0.0004	1.8
%-ANTIMONY	564.1	167.	45196.	0.7289	0.0040	0.5
%-ARSENIC	559.3	209.	590.	0.0051	0.0003	5.5
%-ARSENIC	657.0	21.	58.	0.0042	0.0007	17.4

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2256	2236	2627
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	20.	36.	21.	24.	16.	33.	33.	34.	28.
1997:	23.	21.	30.	23.	33.	22.	25.	28.	28.
2006:	30.	23.	34.	24.	30.	25.	31.	24.	28.
2015:	29.	24.	35.	26.	25.	32.	17.	26.	29.
2024:	24.	29.	28.	29.	34.	35.	37.	47.	51.
2033:	54.	69.	95.	136.	165.	229.	292.	313.	376.
2042:	452.	435.	438.	387.	427.	336.	251.	192.	143.
2051:	113.	72.	68.	54.	49.	31.	26.	26.	31.
2060:	21.	27.	12.	20.	17.	23.	26.	25.	23.
2069:	19.	26.	29.	13.	20.	15.	17.	21.	14.
2078:	20.	21.	11.	15.	17.	20.	25.	21.	22.
2087:	21.	25.	31.	22.	19.	12.	15.	29.	22.
2096:	26.	21.	17.	16.	17.	24.	22.	22.	25.
2105:	21.	16.	19.	17.	20.	17.	12.	18.	22.

% COPPER 0.0225

Bullet Lead-112-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:16:29

Q4C

81206010 NC

SAMPLE WEIGHT: (UG) 13034.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 17:59:20 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	24.	20.	19.	22.	25.	16.	18.	21.	18.
2139:	14.	20.	20.	21.	15.	13.	20.	19.	17.
2148:	20.	21.	21.	23.	25.	18.	28.	16.	15.
2157:	19.	24.	21.	20.	18.	12.	16.	19.	16.
2166:	14.	15.	21.	16.	20.	18.	16.	22.	23.
2175:	31.	19.	9.	10.	23.	15.	13.	21.	29.
2184:	18.	26.	25.	9.	21.	18.	16.	18.	22.
2193:	12.	17.	24.	28.	26.	16.	27.	13.	15.
2202:	17.	24.	14.	19.	15.	27.	16.	18.	22.
2211:	22.	19.	17.	18.	24.	24.	23.	30.	20.
2220:	21.	25.	22.	31.	29.	19.	39.	27.	27.
2229:	22.	29.	39.	70.	100.	143.	142.	151.	184.
2238:	137.	109.	85.	56.	48.	60.	60.	54.	65.
2247:	100.	123.	241.	514.	1050.	2158.	3601.	5496.	6921.
2256:	7525.	6858.	5212.	3301.	1718.	747.	262.	85.	31.
2265:	12.	8.	9.	8.	7.	5.	9.	9.	12.
2274:	8.	4.	7.	7.	7.	6.	4.	5.	2.
2283:	4.	7.	9.	2.	11.	10.	8.	5.	6.
2292:	2.	7.	7.	6.	4.	6.	4.	8.	8.
2301:	4.	7.	7.	3.	8.	5.	9.	10.	8.
2310:	3.	5.	5.	2.	10.	5.	2.	8.	3.
2319:	3.	3.	8.	5.	7.	4.	1.	8.	6.
2328:	8.	5.	4.	7.	10.	10.	6.	12.	6.
2337:	3.	7.	3.	9.	10.	6.	3.	2.	6.
2346:	6.	5.	6.	3.	4.	5.	7.	4.	7.
2355:	7.	3.	4.	6.	3.	3.	2.	5.	8.
2364:	6.	6.	6.	2.	3.	6.	4.	4.	5.

% ANTIMONY 0.7289

% ARSENIC 0.0051

2598:	6.	6.	4.	8.	2.	1.	5.	1.	5.
2607:	2.	4.	3.	3.	8.	3.	8.	4.	5.
2616:	7.	3.	5.	4.	4.	5.	6.	5.	7.
2625:	18.	13.	15.	15.	18.	13.	11.	10.	5.
2634:	4.	4.	5.	3.	3.	5.	2.	7.	4.
2643:	4.	6.	3.	4.	2.	7.	1.	6.	4.

% ARSENIC 0.0042

PAGE 2

Bullet Lead-113-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:17:20

Q5A

81206010 NC

SAMPLE WEIGHT: (UG) 13203.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 18:14:41 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	256.	1748.	0.0099	0.0003	2.8
%-ANTIMONY	564.1	163.	42480.	0.6782	0.0038	0.6
%-ARSENIC	559.3	199.	109.	9.4351E-04	1.9465E-04	20.6
%-ARSENIC	657.0	16.	22.	0.0016	0.0005	33.5

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2256	2237	2628
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	28.	21.	21.	22.	26.	17.	26.	21.	20.
1997:	30.	17.	20.	22.	21.	21.	19.	28.	26.
2006:	24.	30.	29.	31.	26.	22.	24.	20.	15.
2015:	22.	24.	16.	24.	21.	22.	22.	19.	20.
2024:	23.	25.	32.	25.	23.	19.	19.	33.	31.
2033:	38.	41.	70.	77.	82.	114.	152.	147.	175.
2042:	178.	200.	187.	185.	179.	179.	110.	116.	68.
2051:	62.	49.	40.	34.	32.	22.	20.	27.	21.
2060:	15.	19.	32.	18.	18.	16.	13.	15.	23.
2069:	19.	20.	12.	27.	19.	18.	21.	32.	16.
2078:	15.	16.	17.	11.	22.	18.	19.	17.	21.
2087:	18.	11.	12.	18.	13.	19.	22.	17.	22.
2096:	18.	16.	17.	22.	17.	17.	17.	19.	16.
2105:	15.	12.	25.	18.	17.	23.	15.	12.	18.

% COPPER 0.0099

Bullet Lead-114-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:17:34

Q5A

81206010 NC

SAMPLE WEIGHT: (UG) 13203.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 18:14:41 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	20.	18.	16.	21.	23.	18.	21.	18.	18.
2139:	21.	22.	24.	8.	10.	16.	16.	26.	15.
2148:	10.	15.	19.	24.	19.	23.	16.	25.	15.
2157:	24.	18.	18.	17.	12.	18.	25.	15.	14.
2166:	16.	21.	16.	18.	15.	22.	19.	15.	19.
2175:	17.	20.	21.	21.	19.	17.	16.	11.	18.
2184:	15.	15.	20.	26.	22.	19.	14.	21.	21.
2193:	19.	21.	15.	12.	19.	23.	26.	15.	24.
2202:	14.	21.	26.	18.	21.	16.	15.	15.	22.
2211:	12.	19.	11.	21.	20.	20.	16.	19.	19.
2220:	25.	25.	13.	21.	20.	18.	18.	25.	26.
2229:	26.	20.	20.	34.	42.	42.	37.	49.	60.
2238:	50.	61.	45.	43.	41.	48.	65.	50.	63.
2247:	87.	126.	235.	455.	1008.	1938.	3395.	5105.	6604.
2256:	7075.	6336.	4857.	3203.	1658.	753.	256.	94.	31.
2265:	7.	8.	8.	5.	8.	5.	4.	4.	7.
2274:	8.	7.	7.	7.	8.	4.	5.	5.	8.
2283:	4.	5.	8.	3.	12.	4.	5.	6.	7.
2292:	9.	5.	4.	6.	3.	4.	3.	2.	6.
2301:	8.	6.	7.	1.	4.	5.	2.	5.	3.
2310:	4.	2.	7.	4.	1.	6.	7.	2.	7.
2319:	3.	8.	8.	5.	8.	2.	5.	3.	4.
2328:	7.	4.	8.	6.	5.	8.	6.	11.	7.
2337:	2.	1.	9.	7.	8.	4.	3.	2.	6.
2346:	0.	6.	6.	3.	6.	7.	5.	2.	7.
2355:	3.	7.	2.	2.	8.	8.	6.	3.	7.
2364:	7.	8.	7.	6.	11.	5.	7.	6.	4.

% ANTIMONY 0.6782

% ARSENIC 0.0009

2598:	2.	1.	5.	4.	2.	6.	5.	3.	3.
2607:	4.	2.	2.	3.	6.	2.	4.	12.	3.
2616:	4.	5.	3.	4.	2.	7.	0.	7.	3.
2625:	3.	8.	9.	9.	4.	8.	0.	4.	5.
2634:	2.	3.	1.	3.	6.	4.	7.	3.	4.
2643:	2.	6.	5.	1.	0.	2.	4.	2.	2.

% ARSENIC 0.0016

PAGE 2

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:18:25

Q5B

S1206010 NC

SAMPLE WEIGHT: (UG) 13084.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 18:30:02 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	275.	1773.	0.0103	0.0003	2.8
%-ANTIMONY	564.1	173.	41737.	0.6742	0.0038	0.6
%-ARSENIC	559.3	204.	111.	9.7049E-04	1.9995E-04	20.6
%-ARSENIC	657.0	20.	12.	8.7093E-04	5.2396E-04	60.2

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2256	2236	2628
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2240 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	23.	17.	15.	24.	28.	30.	27.	21.	31.
1997:	17.	23.	19.	30.	14.	21.	18.	24.	23.
2006:	19.	15.	27.	18.	19.	23.	22.	25.	25.
2015:	22.	21.	20.	22.	25.	22.	33.	17.	23.
2024:	19.	23.	16.	20.	28.	22.	24.	32.	34.
2033:	42.	41.	60.	43.	82.	83.	137.	162.	194.
2042:	214.	200.	221.	172.	175.	171.	130.	107.	81.
2051:	61.	60.	43.	46.	32.	24.	23.	12.	20.
2060:	17.	19.	24.	16.	23.	20.	23.	10.	23.
2069:	21.	20.	21.	18.	25.	16.	13.	19.	22.
2078:	12.	16.	21.	16.	20.	19.	24.	19.	20.
2087:	14.	22.	16.	20.	16.	14.	21.	20.	13.
2096:	21.	28.	19.	12.	22.	14.	16.	20.	23.
2105:	12.	19.	24.	23.	19.	19.	26.	24.	20.

% COPPER 0.0103

Bullet Lead-116-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:18:38

Q5B

S1206010 NC

SAMPLE WEIGHT: (UG) 13084.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 18:30:02 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	17.	15.	13.	20.	19.	16.	15.	14.	23.
2139:	18.	24.	24.	16.	19.	21.	20.	20.	12.
2148:	20.	12.	18.	16.	11.	17.	15.	9.	16.
2157:	19.	19.	20.	14.	19.	14.	19.	20.	24.
2166:	22.	12.	10.	18.	27.	25.	15.	20.	8.
2175:	15.	28.	21.	21.	20.	16.	20.	21.	14.
2184:	17.	14.	18.	26.	19.	11.	13.	18.	17.
2193:	14.	16.	24.	17.	13.	16.	22.	20.	18.
2202:	24.	17.	26.	21.	15.	20.	17.	13.	10.
2211:	23.	18.	13.	14.	21.	16.	17.	17.	24.
2220:	20.	27.	20.	18.	19.	17.	24.	14.	18.
2229:	19.	26.	23.	39.	31.	45.	45.	51.	47.
2238:	54.	39.	34.	46.	47.	50.	49.	63.	71.
2247:	79.	108.	227.	468.	1023.	1864.	3356.	4945.	6515.
2256:	6995.	6338.	4707.	3059.	1605.	763.	272.	76.	24.
2265:	13.	9.	7.	6.	7.	6.	9.	3.	3.
2274:	7.	4.	5.	7.	2.	4.	5.	5.	9.
2283:	10.	5.	7.	12.	6.	8.	7.	5.	0.
2292:	6.	9.	1.	2.	3.	2.	1.	4.	5.
2301:	10.	4.	6.	5.	3.	5.	3.	7.	4.
2310:	4.	2.	6.	6.	3.	9.	7.	3.	7.
2319:	7.	3.	3.	7.	9.	7.	4.	1.	3.
2328:	9.	6.	13.	10.	9.	7.	9.	12.	8.
2337:	11.	7.	5.	1.	5.	2.	5.	9.	5.
2346:	6.	6.	2.	7.	3.	1.	4.	4.	7.
2355:	5.	5.	2.	6.	4.	7.	2.	3.	6.
2364:	5.	4.	2.	7.	11.	9.	5.	4.	3.

% ANTIMONY 0.6742

% ARSENIC 0.0010

2598:	3.	4.	3.	3.	4.	4.	4.	7.	2.
2607:	1.	2.	3.	5.	4.	4.	2.	4.	6.
2616:	7.	2.	3.	3.	4.	7.	5.	6.	4.
2625:	5.	6.	2.	12.	6.	6.	6.	2.	3.
2634:	2.	5.	3.	6.	1.	2.	1.	3.	5.
2643:	4.	6.	5.	4.	4.	3.	2.	4.	3.

% ARSENIC 0.0009

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:19:37

Q5C

81206010 NC

SAMPLE WEIGHT: (UG) 11484.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 18:45:22 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 907. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	240.	1420.	0.0095	0.0003	3.1
%-ANTIMONY	564.1	125.	36775.	0.6787	0.0040	0.6
%-ARSENIC	559.3	165.	107.	0.0011	0.0002	19.6
%-ARSENIC	657.0	12.	16.	0.0013	0.0005	41.1
		CU	SB	AS	AS	
CNTS/UG/MIN AT RD		141.6	34.6	73.26	8.85	
CENTROID CHANNEL		2043	2256	2237	2629	
HALF-LIFE		12.8 H	2.7 D	26.3 H	26.3 H	
BACKGROUND SPACING		50 L&R	80 L&R	30 L CH 2242 R	25L 19 R	
BACKGROUND CHANNELS		22 L&R	22 L&R	11 L 1 R	10 L&R	
PEAK CHANNELS		13	13	5	5	
1988:	12.	19.	22.	21.	21.	17.
1997:	18.	24.	23.	24.	18.	17.
2006:	19.	14.	21.	25.	13.	20.
2015:	22.	21.	15.	14.	21.	20.
2024:	17.	19.	14.	19.	28.	24.
2033:	27.	35.	38.	47.	74.	78.
2042:	174.	158.	173.	148.	158.	130.
2051:	57.	43.	39.	35.	27.	30.
2060:	18.	16.	18.	15.	24.	21.
2069:	19.	20.	17.	13.	22.	21.
2078:	21.	17.	17.	8.	16.	15.
2087:	15.	18.	16.	25.	20.	11.
2096:	20.	15.	18.	14.	16.	21.
2105:	19.	10.	21.	14.	13.	14.

% COPPER 0.0095

Bullet Lead-118-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:19:51

Q5C

81206010 NC

SAMPLE WEIGHT: (UG) 11484.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 18:45:22 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 907. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	12.	17.	12.	12.	22.	18.	14.	12.	23.
2139:	15.	15.	17.	15.	9.	20.	16.	16.	20.
2148:	16.	18.	6.	14.	18.	17.	13.	22.	7.
2157:	18.	19.	9.	15.	17.	13.	9.	11.	19.
2166:	13.	10.	10.	14.	17.	15.	15.	13.	18.
2175:	13.	18.	11.	14.	13.	13.	16.	27.	16.
2184:	19.	15.	12.	20.	24.	9.	16.	12.	13.
2193:	14.	12.	15.	14.	15.	23.	17.	15.	25.
2202:	12.	17.	18.	14.	13.	10.	14.	10.	21.
2211:	17.	19.	14.	17.	13.	19.	26.	13.	16.
2220:	19.	23.	15.	18.	14.	19.	28.	18.	19.
2229:	28.	18.	23.	22.	36.	35.	46.	41.	66.
2238:	42.	39.	38.	52.	36.	45.	48.	52.	57.
2247:	64.	99.	183.	381.	846.	1646.	2949.	4442.	5584.
2256:	6158.	5479.	4278.	2702.	1500.	692.	243.	80.	26.
2265:	12.	4.	3.	4.	7.	9.	6.	6.	5.
2274:	4.	2.	6.	6.	3.	6.	3.	4.	3.
2283:	5.	4.	5.	7.	4.	10.	3.	4.	1.
2292:	3.	7.	4.	1.	10.	5.	2.	4.	8.
2301:	6.	8.	3.	5.	4.	6.	7.	6.	6.
2310:	5.	6.	5.	6.	4.	4.	2.	5.	6.
2319:	5.	4.	0.	8.	4.	5.	6.	2.	4.
2328:	3.	8.	3.	6.	2.	10.	7.	8.	0.
2337:	4.	5.	5.	3.	3.	4.	6.	2.	7.
2346:	1.	2.	6.	0.	1.	4.	2.	3.	3.
2355:	5.	4.	1.	6.	2.	7.	4.	1.	5.
2364:	3.	4.	3.	4.	5.	6.	0.	2.	4.

% ANTIMONY 0.6787

% ARSENIC 0.0011

2598:	4.	3.	2.	5.	6.	2.	2.	4.	4.
2607:	1.	0.	2.	2.	5.	4.	4.	5.	3.
2616:	2.	5.	2.	3.	2.	2.	1.	4.	3.
2625:	2.	2.	8.	8.	6.	3.	3.	5.	3.
2634:	2.	6.	5.	3.	0.	5.	3.	2.	5.
2643:	4.	1.	2.	1.	1.	0.	5.	0.	4.

% ARSENIC 0.0013

PAGE 2

Bullet Lead-119-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:20:42

Q&A

S1206010 NC

SAMPLE WEIGHT: (UG) 13908.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 19:00:39 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	287.	1708.	0.0096	0.0003	2.9
%-ANTIMONY	564.1	167.	44666.	0.6825	0.0038	0.6
%-ARSENIC	559.3	237.	126.	0.0011	0.0002	19.5
%-ARSENIC	657.0	19.	16.	0.0011	0.0005	46.0

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2256	2237	2628
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2240 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	22.	28.	19.	19.	29.	25.	16.	31.	23.
1997:	24.	36.	29.	24.	24.	30.	31.	26.	29.
2006:	28.	34.	24.	23.	18.	28.	27.	22.	19.
2015:	20.	30.	23.	28.	27.	12.	19.	25.	15.
2024:	24.	21.	21.	22.	22.	20.	24.	33.	37.
2033:	43.	45.	56.	66.	99.	101.	127.	177.	162.
2042:	188.	225.	214.	162.	164.	154.	125.	97.	93.
2051:	65.	53.	41.	45.	31.	16.	21.	35.	14.
2060:	30.	30.	22.	25.	16.	17.	27.	29.	17.
2069:	24.	26.	16.	27.	24.	16.	24.	16.	25.
2078:	22.	16.	21.	21.	31.	27.	19.	14.	13.
2087:	16.	21.	22.	23.	21.	24.	19.	13.	23.
2096:	17.	20.	10.	22.	26.	14.	13.	12.	20.
2105:	23.	20.	20.	16.	27.	12.	21.	18.	27.

% COPPER 0.0096

Bullet Lead-120-95-246207

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS

14-FEB-89 06:20:55

Q6A

81206010 NC

SAMPLE WEIGHT: (UG) 13908.00
ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
ACQUIRE DATE: 13-FEB-89 19:00:39 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500000
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	28.	18.	19.	17.	12.	16.	13.	12.	19.
2139:	21.	22.	22.	19.	16.	20.	19.	27.	15.
2148:	23.	24.	21.	15.	24.	19.	19.	21.	14.
2157:	13.	16.	19.	17.	14.	13.	18.	20.	17.
2166:	14.	13.	23.	25.	17.	18.	19.	20.	16.
2175:	19.	21.	19.	16.	15.	20.	27.	20.	21.
2184:	17.	19.	16.	12.	18.	12.	17.	16.	19.
2193:	21.	17.	13.	23.	28.	15.	11.	21.	21.
2202:	20.	20.	24.	21.	19.	19.	24.	23.	18.
2211:	23.	26.	23.	24.	18.	26.	26.	13.	23.
2220:	26.	27.	20.	19.	22.	25.	17.	26.	30.
2229:	37.	25.	31.	30.	30.	44.	45.	62.	53.
2238:	60.	57.	39.	46.	41.	58.	60.	77.	79.
2247:	97.	135.	270.	496.	1067.	2159.	3702.	5451.	6837.
2256:	7330.	6649.	5141.	3219.	1723.	750.	309.	96.	36.
2265:	7.	4.	6.	6.	9.	5.	10.	11.	4.
2274:	4.	9.	9.	7.	4.	5.	4.	5.	5.
2283:	9.	5.	1.	3.	6.	2.	7.	5.	7.
2292:	8.	4.	6.	4.	6.	3.	5.	5.	6.
2301:	7.	6.	4.	3.	5.	4.	4.	5.	3.
2310:	5.	5.	2.	5.	5.	2.	4.	6.	5.
2319:	4.	8.	5.	1.	4.	7.	5.	5.	10.
2328:	2.	5.	4.	7.	12.	11.	7.	3.	8.
2337:	7.	3.	3.	8.	4.	9.	3.	7.	4.
2346:	0.	2.	3.	4.	8.	7.	2.	9.	3.
2355:	9.	2.	5.	6.	1.	8.	6.	6.	3.
2364:	2.	4.	5.	3.	3.	6.	6.	1.	4.

% ANTIMONY 0.6825

% ARSENIC 0.0011

2598:	4.	3.	5.	7.	5.	2.	7.	3.	2.
2607:	4.	4.	5.	4.	4.	1.	3.	1.	2.
2616:	1.	3.	6.	3.	4.	2.	1.	4.	6.
2625:	5.	5.	10.	8.	4.	8.	4.	7.	4.
2634:	8.	0.	4.	4.	4.	1.	3.	2.	2.
2643:	5.	1.	2.	5.	0.	1.	6.	2.	2.

% ARSENIC 0.0011

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:21:46

Q&B

S1206010 NC

SAMPLE WEIGHT: (UG) 13925.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 19:16:00 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	288.	1728.	0.00098	0.0003	2.8
%-ANTIMONY	564.1	154.	44725.	0.6844	0.0038	0.6
%-ARSENIC	559.3	196.	195.	0.0016	0.0002	12.4
%-ARSENIC	657.0	17.	11.	7.3064E-04	4.5943E-04	62.9

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2044	2256	2237	2629
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	32.	22.	35.	29.	19.	21.	26.	20.	21.
1997:	20.	25.	19.	34.	22.	28.	23.	20.	29.
2006:	21.	17.	26.	24.	24.	21.	35.	33.	27.
2015:	30.	26.	32.	28.	21.	25.	19.	17.	35.
2024:	18.	21.	27.	21.	27.	17.	21.	31.	40.
2033:	29.	45.	51.	64.	73.	111.	133.	130.	200.
2042:	213.	218.	216.	162.	176.	173.	120.	90.	74.
2051:	65.	49.	38.	30.	20.	30.	20.	19.	18.
2060:	19.	20.	20.	16.	18.	16.	19.	27.	10.
2069:	20.	30.	18.	16.	14.	24.	25.	17.	11.
2078:	17.	15.	10.	17.	14.	21.	10.	18.	24.
2087:	23.	13.	19.	25.	24.	21.	21.	17.	18.
2096:	23.	14.	28.	20.	26.	30.	17.	18.	15.
2105:	17.	19.	22.	18.	14.	18.	17.	27.	21.

% COPPER 0.00098

Bullet Lead-122-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:22:00

Q6B

81206010 NC

SAMPLE WEIGHT: (UG)	13925.00	
ACTIVATION:	13-FEB-89 09:49:00	NIST RT4 5MIN
ACQUIRE DATE:	13-FEB-89 19:16:00	GEN 13
PRESET LIVE TIME:	900. SEC	CALIB DATE: 13-FEB-89 14:27:53
ELAPSED REAL TIME:	908. SEC	KEV/CHNL: 0.2500000
ELAPSED LIVE TIME:	900. SEC	OFFSET: -0.0000228 KEV

2130:	22.	14.	19.	17.	19.	21.	18.	14.	19.
2139:	23.	15.	22.	13.	21.	12.	20.	26.	11.
2148:	22.	26.	14.	19.	12.	22.	19.	16.	14.
2157:	23.	14.	20.	12.	18.	30.	14.	19.	22.
2166:	20.	28.	20.	16.	13.	17.	18.	14.	14.
2175:	26.	23.	16.	16.	13.	19.	20.	19.	23.
2184:	20.	19.	11.	17.	20.	11.	17.	16.	14.
2193:	22.	9.	14.	13.	21.	10.	16.	19.	16.
2202:	14.	13.	19.	17.	20.	17.	19.	18.	15.
2211:	20.	24.	19.	30.	22.	18.	18.	25.	31.
2220:	32.	23.	20.	25.	17.	23.	22.	17.	25.
2229:	27.	23.	23.	33.	29.	44.	62.	80.	65.
2238:	64.	59.	41.	42.	36.	56.	36.	67.	62.
2247:	89.	143.	233.	483.	1023.	2076.	3615.	5393.	6933.
2256:	7528.	6741.	5111.	3187.	1710.	795.	284.	100.	22.
2265:	10.	2.	8.	7.	9.	4.	4.	2.	7.
2274:	4.	5.	6.	7.	8.	6.	4.	6.	5.
2283:	4.	5.	3.	8.	7.	6.	4.	3.	7.
2292:	8.	7.	2.	7.	4.	5.	8.	7.	3.
2301:	5.	4.	6.	8.	6.	10.	10.	10.	3.
2310:	2.	4.	8.	3.	3.	7.	7.	3.	8.
2319:	5.	8.	8.	7.	6.	1.	7.	3.	5.
2328:	10.	8.	7.	12.	5.	7.	8.	4.	8.
2337:	7.	4.	2.	3.	5.	6.	3.	6.	8.
2346:	7.	7.	2.	3.	7.	6.	4.	9.	2.
2355:	3.	3.	8.	3.	5.	8.	6.	7.	8.
2364:	5.	4.	8.	5.	2.	7.	9.	4.	5.

% ANTIMONY 0.6844

% ARSENIC 0.0016

2598:	8.	3.	3.	1.	1.	3.	3.	1.	6.
2607:	2.	5.	2.	4.	2.	4.	2.	3.	3.
2616:	2.	3.	2.	2.	1.	2.	4.	3.	1.
2625:	3.	0.	5.	6.	7.	3.	6.	1.	7.
2634:	4.	5.	3.	4.	3.	2.	2.	5.	5.
2643:	4.	5.	6.	2.	4.	3.	4.	6.	4.

% ARSENIC 0.0007

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:22:51

Q6C

81206010 NC

SAMPLE WEIGHT: (UG) 14476.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 19:31:20 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	292.	1710.	0.0095	0.0003	2.9
%-ANTIMONY	564.1	155.	45025.	0.6646	0.0036	0.5
%-ARSENIC	559.3	180.	118.	9.5775E-04	1.7819E-04	18.6
%-ARSENIC	657.0	17.	22.	0.0015	0.0005	34.1

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2256	2235	2629
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2238 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	12.	31.	18.	27.	18.	30.	25.	27.	25.
1997:	31.	26.	19.	17.	21.	20.	30.	27.	27.
2006:	27.	24.	23.	22.	23.	20.	21.	27.	22.
2015:	23.	25.	25.	26.	27.	24.	38.	27.	31.
2024:	20.	20.	21.	26.	24.	19.	26.	22.	35.
2033:	41.	31.	69.	56.	78.	100.	126.	150.	175.
2042:	179.	220.	188.	201.	179.	165.	124.	117.	73.
2051:	56.	50.	43.	33.	34.	35.	29.	25.	23.
2060:	32.	15.	23.	18.	10.	26.	22.	15.	14.
2069:	27.	23.	19.	20.	20.	30.	21.	19.	16.
2078:	20.	23.	9.	17.	15.	16.	21.	18.	25.
2087:	17.	26.	18.	20.	22.	29.	14.	26.	18.
2096:	12.	24.	15.	16.	18.	29.	22.	25.	21.
2105:	21.	17.	16.	17.	25.	14.	20.	20.	19.

% COPPER 0.0095

Bullet Lead-124-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:23:05

Q6C

81206010 NC

SAMPLE WEIGHT: (UG)	14476.00		
ACTIVATION:	13-FEB-89 09:49:00	NIST RT4 5MIN	
ACQUIRE DATE:	13-FEB-89 19:31:20	GEM 13	
PRESET LIVE TIME:	900. SEC	CALIB DATE:	13-FEB-89 14:27:53
ELAPSED REAL TIME:	909. SEC	KEV/CHNL:	0.2500000
ELAPSED LIVE TIME:	900. SEC	OFFSET:	-0.0000228 KEV

2130:	14.	21.	18.	14.	21.	27.	12.	17.	17.
2139:	20.	22.	15.	20.	25.	22.	14.	23.	21.
2148:	19.	19.	20.	22.	21.	18.	16.	18.	19.
2157:	12.	19.	23.	11.	14.	20.	18.	19.	15.
2166:	15.	19.	20.	19.	16.	12.	16.	21.	19.
2175:	16.	21.	22.	15.	14.	21.	15.	29.	27.
2184:	24.	23.	28.	15.	17.	13.	18.	20.	20.
2193:	19.	25.	12.	16.	12.	20.	12.	16.	17.
2202:	19.	13.	14.	13.	20.	14.	9.	24.	21.
2211:	26.	20.	19.	21.	20.	22.	21.	13.	25.
2220:	23.	19.	23.	17.	20.	26.	22.	29.	24.
2229:	20.	26.	28.	35.	47.	44.	49.	61.	55.
2238:	39.	55.	48.	40.	49.	49.	44.	51.	83.
2247:	84.	122.	220.	480.	1014.	2053.	3599.	5324.	6839.
2256:	7577.	6632.	5448.	3345.	1758.	806.	305.	107.	26.
2265:	7.	8.	2.	2.	6.	9.	4.	7.	10.
2274:	7.	6.	12.	4.	3.	4.	9.	6.	6.
2283:	6.	5.	7.	8.	4.	8.	5.	5.	4.
2292:	2.	6.	4.	5.	6.	7.	5.	5.	7.
2301:	6.	11.	4.	3.	6.	6.	7.	6.	4.
2310:	3.	7.	7.	4.	11.	1.	6.	4.	6.
2319:	2.	4.	6.	2.	7.	7.	3.	7.	0.
2328:	6.	4.	10.	12.	10.	7.	7.	6.	8.
2337:	5.	5.	5.	1.	4.	5.	4.	6.	5.
2346:	3.	3.	5.	2.	4.	3.	1.	5.	2.
2355:	10.	3.	3.	1.	8.	5.	2.	6.	5.
2364:	11.	4.	5.	4.	4.	1.	4.	4.	5.

% ANTIMONY 0.6646

% ARSENIC 0.0010

2598:	2.	4.	2.	4.	2.	7.	1.	5.	3.
2607:	5.	5.	1.	5.	6.	3.	4.	3.	5.
2616:	4.	8.	5.	2.	5.	3.	3.	5.	2.
2625:	6.	8.	16.	1.	5.	8.	9.	2.	7.
2634:	5.	5.	2.	3.	5.	3.	4.	2.	5.
2643:	4.	6.	0.	2.	5.	4.	2.	3.	3.

% ARSENIC 0.0015

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:23:56

Q7A

81206010 NC

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SAMPLE WEIGHT: ( UG ) 16272.00
ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
ACQUIRE DATE: 13-FEB-89 19:46:41 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV
    
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UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	355.	4354.	0.0218	0.0004	1.8
%-ANTIMONY	564.1	206.	55178.	0.7265	0.0037	0.5
%-ARSENIC	559.3	257.	656.	0.0048	0.0003	5.3
%-ARSENIC	657.0	24.	82.	0.0049	0.0007	14.1

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2044	2256	2236	2627
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	40.	32.	23.	24.	34.	25.	31.	26.	37.
1997:	40.	30.	30.	27.	35.	28.	22.	43.	20.
2006:	31.	23.	32.	28.	25.	39.	21.	28.	26.
2015:	32.	33.	27.	33.	33.	43.	31.	43.	27.
2024:	24.	38.	31.	43.	30.	40.	39.	58.	62.
2033:	62.	77.	127.	147.	164.	256.	309.	354.	434.
2042:	447.	496.	493.	424.	417.	387.	294.	229.	169.
2051:	133.	105.	96.	54.	46.	43.	27.	33.	27.
2060:	44.	27.	22.	28.	29.	24.	29.	37.	23.
2069:	20.	32.	22.	23.	25.	23.	12.	31.	37.
2078:	24.	18.	28.	31.	19.	19.	35.	26.	26.
2087:	27.	35.	26.	21.	26.	31.	26.	24.	21.
2096:	27.	25.	14.	28.	36.	30.	17.	22.	27.
2105:	22.	13.	22.	25.	27.	19.	18.	23.	23.

% COPPER 0.0218

Bullet Lead-126-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:24:09

Q7A

S1206010 NC

SAMPLE WEIGHT: (UG) 16272.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 19:46:41 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	22.	17.	22.	27.	26.	23.	24.	21.	25.
2139:	23.	21.	23.	26.	26.	24.	29.	22.	17.
2148:	23.	14.	20.	20.	34.	22.	22.	25.	21.
2157:	20.	27.	17.	17.	19.	22.	21.	26.	24.
2166:	35.	33.	24.	22.	15.	15.	24.	32.	21.
2175:	13.	27.	18.	34.	27.	21.	28.	24.	24.
2184:	14.	17.	23.	24.	32.	20.	29.	24.	20.
2193:	26.	20.	22.	26.	16.	28.	18.	30.	23.
2202:	18.	24.	25.	28.	22.	30.	22.	21.	15.
2211:	29.	23.	27.	14.	26.	26.	23.	30.	19.
2220:	24.	26.	24.	27.	35.	25.	39.	27.	35.
2229:	33.	38.	45.	74.	122.	131.	180.	177.	188.
2238:	173.	117.	88.	63.	72.	54.	87.	78.	88.
2247:	107.	166.	332.	619.	1254.	2595.	4420.	6674.	8455.
2256:	9149.	8347.	6329.	4091.	2133.	976.	342.	112.	38.
2265:	9.	13.	5.	9.	8.	6.	2.	7.	7.
2274:	9.	7.	7.	3.	7.	5.	9.	5.	5.
2283:	6.	7.	4.	5.	5.	9.	8.	12.	10.
2292:	12.	3.	6.	6.	7.	8.	14.	5.	8.
2301:	6.	5.	6.	9.	5.	3.	2.	5.	5.
2310:	8.	3.	6.	5.	7.	5.	5.	8.	6.
2319:	7.	5.	2.	2.	7.	7.	3.	4.	6.
2328:	4.	11.	6.	10.	7.	10.	8.	6.	4.
2337:	9.	8.	11.	8.	8.	3.	1.	6.	8.
2346:	3.	7.	6.	8.	8.	4.	5.	6.	11.
2355:	9.	5.	5.	4.	7.	0.	5.	3.	5.
2364:	7.	2.	6.	7.	7.	4.	10.	9.	4.

% ANTIMONY 0.7265

% ARSENIC 0.0048

2598:	2.	3.	5.	6.	3.	3.	9.	4.	3.
2607:	3.	4.	4.	5.	6.	4.	6.	3.	5.
2616:	2.	7.	7.	1.	2.	2.	4.	5.	11.
2625:	16.	21.	25.	21.	23.	8.	16.	8.	8.
2634:	5.	4.	9.	5.	1.	3.	5.	6.	2.
2643:	2.	0.	5.	6.	4.	7.	3.	5.	2.

% ARSENIC 0.0049

PAGE 2

Bullet Lead-127-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:25:01

Q7B

81206010 NC

SAMPLE WEIGHT: (UG) 16668.00
 ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN
 ACQUIRE DATE: 13-FEB-89 20:02:02 GEN 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53
 ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

UNKNOWN SAMPLE REPORT

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA ERROR	%ERROR
%-COPPER	511.0	379.	4500.	0.0223	0.0004	1.7
%-ANTIMONY	564.1	209.	56229.	0.7247	0.0037	0.5
%-ARSENIC	559.3	271.	647.	0.0046	0.0003	5.4
%-ARSENIC	657.0	19.	73.	0.0043	0.0006	14.6

	CU	SB	AS	AS
CNTS/UG/MIN AT RD	141.6	34.6	73.26	8.85
CENTROID CHANNEL	2043	2256	2237	2627
HALF-LIFE	12.8 H	2.7 D	26.3 H	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R	25L 19 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R	10 L&R
PEAK CHANNELS	13	13	5	5

1988:	30.	26.	30.	30.	36.	34.	27.	37.	31.
1997:	43.	34.	27.	18.	34.	33.	30.	23.	34.
2006:	22.	26.	28.	43.	26.	39.	29.	23.	30.
2015:	32.	36.	32.	19.	21.	26.	23.	30.	34.
2024:	42.	42.	33.	27.	39.	38.	45.	32.	51.
2033:	70.	77.	98.	110.	195.	264.	320.	381.	444.
2042:	485.	467.	477.	469.	436.	372.	325.	244.	184.
2051:	118.	117.	82.	49.	52.	44.	45.	44.	34.
2060:	33.	27.	35.	34.	27.	19.	28.	21.	25.
2069:	21.	24.	29.	20.	23.	25.	19.	16.	32.
2078:	25.	26.	28.	27.	25.	28.	19.	25.	15.
2087:	24.	24.	24.	26.	20.	31.	23.	24.	32.
2096:	32.	27.	20.	12.	18.	32.	34.	29.	23.
2105:	22.	27.	31.	28.	15.	27.	27.	35.	32.

% COPPER 0.0223

Bullet Lead-128-95-246207

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

14-FEB-89 06:25:14

Q7B

81206010 NC

SAMPLE WEIGHT: (UG) 16668.00

ACTIVATION: 13-FEB-89 09:49:00 NIST RT4 5MIN

ACQUIRE DATE: 13-FEB-89 20:02:02 GEN 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 13-FEB-89 14:27:53

ELAPSED REAL TIME: 911. SEC KEV/CHNL: 0.2500000

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0000228 KEV

2130:	17.	19.	27.	30.	30.	20.	18.	15.	22.
2139:	24.	28.	22.	19.	21.	22.	19.	16.	27.
2148:	19.	29.	18.	24.	23.	22.	19.	22.	25.
2157:	20.	24.	24.	19.	23.	20.	21.	19.	24.
2166:	25.	19.	19.	26.	24.	24.	19.	27.	26.
2175:	27.	23.	14.	20.	26.	19.	29.	22.	28.
2184:	29.	29.	22.	20.	27.	30.	30.	17.	26.
2193:	22.	22.	28.	22.	28.	10.	26.	25.	26.
2202:	22.	15.	17.	29.	26.	26.	35.	32.	23.
2211:	21.	25.	17.	12.	35.	28.	31.	30.	29.
2220:	25.	25.	24.	31.	23.	27.	31.	36.	39.
2229:	32.	39.	44.	68.	115.	136.	193.	184.	169.
2238:	165.	138.	98.	73.	66.	56.	59.	76.	97.
2247:	117.	143.	290.	621.	1290.	2521.	4350.	6552.	8635.
2256:	9351.	8631.	6580.	4215.	2257.	1042.	393.	132.	36.
2265:	9.	11.	4.	8.	13.	3.	9.	3.	11.
2274:	7.	3.	6.	5.	9.	9.	7.	10.	12.
2283:	7.	9.	11.	8.	10.	4.	11.	9.	11.
2292:	6.	5.	10.	4.	7.	11.	9.	5.	4.
2301:	3.	7.	5.	8.	4.	8.	8.	4.	5.
2310:	14.	12.	8.	4.	13.	4.	10.	9.	2.
2319:	7.	9.	8.	5.	13.	1.	4.	6.	2.
2328:	11.	7.	10.	11.	14.	16.	8.	10.	11.
2337:	7.	6.	7.	4.	5.	5.	3.	4.	8.
2346:	11.	8.	3.	7.	5.	9.	6.	5.	2.
2355:	7.	3.	2.	3.	5.	5.	5.	6.	4.
2364:	5.	7.	4.	6.	4.	8.	3.	10.	4.

% ANTIMONY 0.7247

% ARSENIC 0.0046

2598:	3.	5.	4.	3.	6.	4.	3.	8.	4.
2607:	1.	6.	3.	9.	5.	3.	4.	7.	4.
2616:	7.	4.	3.	7.	6.	6.	9.	12.	10.
2625:	16.	15.	23.	21.	17.	14.	5.	12.	8.
2634:	5.	5.	7.	5.	4.	4.	3.	2.	4.
2643:	1.	5.	3.	3.	3.	4.	4.	4.	4.

% ARSENIC 0.0043

PAGE 2

Bullet Lead-129-95-246207

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS

14-FEB-89 06:26:06

Q7C

01284010 NC